

*Date Book*

*For*

*1928*

# CALENDAR FOR 1928

1928	S	M	T	W	T	F	S	1928	S	M	T	W	T	F	S
Jan.	1	2	3	4	5	6	7	July	1	2	3	4	5	6	7
	8	9	10	11	12	13	14		8	9	10	11	12	13	14
	15	16	17	18	19	20	21		15	16	17	18	19	20	21
	22	23	24	25	26	27	28		22	23	24	25	26	27	28
	29	30	31	...	...	...	...		29	30	31	...	...	...	...
Feb.	...	...	...	1	2	3	4	Aug.	...	...	...	1	2	3	4
	5	6	7	8	9	10	11		5	6	7	8	9	10	11
	12	13	14	15	16	17	18		12	13	14	15	16	17	18
	19	20	21	22	23	24	25		19	20	21	22	23	24	25
	26	27	28	29	...	...	...		26	27	28	29	30	31	..
Mar.	...	...	...	...	1	2	3	Sept.	...	...	...	...	...	...	1
	4	5	6	7	8	9	10		2	3	4	5	6	7	8
	11	12	13	14	15	16	17		9	10	11	12	13	14	15
	18	19	20	21	22	23	24		16	17	18	19	20	21	22
	25	26	27	28	29	30	31		23	24	25	26	27	28	29
									30	...	...	...	...	...	..
Apr.	1	2	3	4	5	6	7	Oct.	..	1	2	3	4	5	6
	8	9	10	11	12	13	14		7	8	9	10	11	12	13
	15	16	17	18	19	20	21		14	15	16	17	18	19	20
	22	23	24	25	26	27	28		21	22	23	24	25	26	27
	29	30	...	...	...	...	...		28	29	30	31	...	...	...
May	...	...	1	2	3	4	5	Nov	...	...	...	...	1	2	3
	6	7	8	9	10	11	12		4	5	6	7	8	9	10
	13	14	15	16	17	18	19		11	12	13	14	15	16	17
	20	21	22	23	24	25	26		18	19	20	21	22	23	24
	27	28	29	30	31	...	...		25	26	27	28	29	30	..
June	...	...	...	...	...	1	2	Dec.	...	...	...	...	...	...	1
	3	4	5	6	7	8	9		2	3	4	5	6	7	8
	10	11	12	13	14	15	16		9	10	11	12	13	14	15
	17	18	19	20	21	22	23		16	17	18	19	20	21	22
	24	25	26	27	28	29	30		23	24	25	26	27	28	29
									30	31	...	...	...	...	...

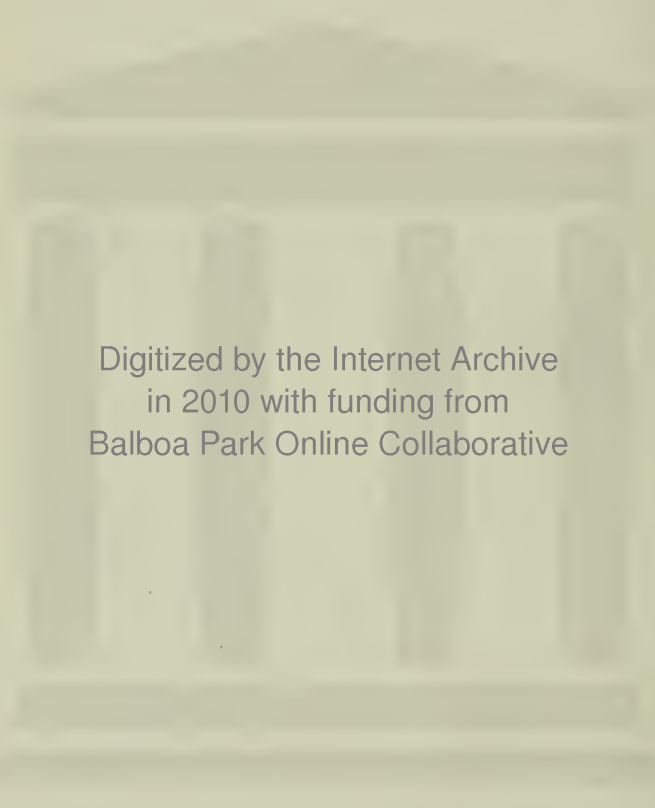
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# Date Book For 1928

Trade Mark

K & T

Reg. U. S. Pat. Off.



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1928

Sunday 1,

January

January Monday 2, 1928

Drove to Pasadena and back today to see the Stanford - Pittsburgh game. Start at 8<sup>45</sup> A.M. - return at 11<sup>15</sup> P.M. A part cloudy but warm day. H.K.s, Allan, wife and I. 66 miles in the county (count north trip only.) Nothing seen.

Coming back heard loud Hyla regilla choruses at many points. Noted San Mateo, San Onofre, Los Flores, Stuart, Oceanside, Carlsbad, Del Mar, La Jolla.

1928      Tuesday 3,      January

January Wednesday 4, 1928

1928 Thursday 5, January

January

Friday 6,

1928

1928      Saturday 7,      January



January

Sunday 8,

1928

1928      Monday 9,      January

January Tuesday 10, 1928

1928 Wednesday 11, January

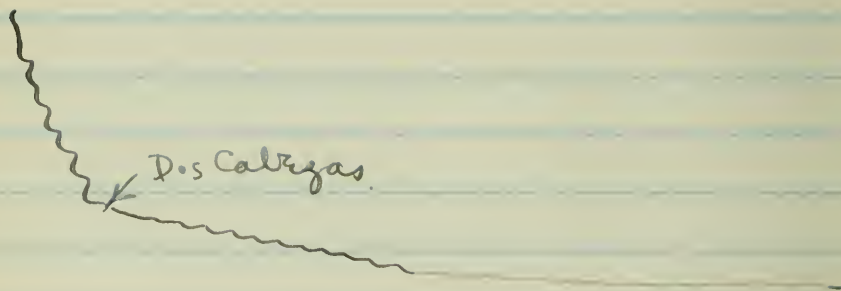
January Thursday 12, 1928

1928

Friday 13,

January

January Saturday 14, 1928





1928 Sunday 15, January

Returning from Chicago today via the S.D. Ry A made the following notes on the Dos Cabezas section.

From the county line (MP 112 Culvert B) to Dos Cabezas there is a long arm of desert rolling and sandy although much higher than the section around Coyote Wells. Much like the country just east of the Narrows. Plenty Ocotilla. At MP 111 we are 2 to 3 miles from the edge of the foot hills which lie to the south.

At Dos Cabezas we are still in the sandy area but the true foothills are very close. In fact Dos Cabezas may be said to be on the edge.

Above Dos Cabezas we see more greasewood and then plenty rocks.

After Dos Cabezas we again get out into a narrow sand - ocotilla area. The true gorge (Carrijo) begins at MP 107+. Rocks close and on both sides. The railroad does not follow Carrijo creek to the bottom. The creek goes off to the north.

Carrijo Gorge Station (or siding) is way up the mountain at MP 101. This is nowhere near the creek.

January Monday 16, 1928

1928 Tuesday 17, January

January · Wednesday 18, 1928

1928      Thursday 19,    January

January      Friday 20,      1928

1928      Saturday 21,      January



January

Sunday 22,

1928

1928      Monday 23,    January

January Tuesday 24, 1928

1928 Wednesday 25, January

January Thursday 26, 1928

1928

Friday 27,

January

January Saturday 28, 1928



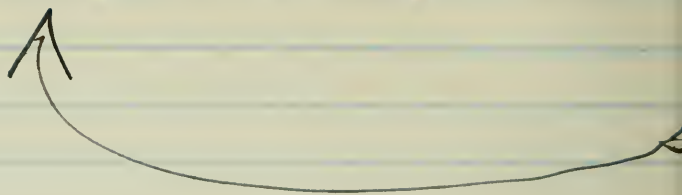
1928

Sunday 29, January

January      Monday 30,      1928

1928      Tuesday 31,      January

February Wednesday 1, 1928



1928 Thursday 2, February

Feb 2 I rode to El Cajon for inspection of substations. Returned via the new Broadway (Bostonia) road over Fletcher hills and thence thru Rolando and the Chollas Road. A fine clear day as warm as summer. No snakes seen on the road alive or dead.

On Broadway n.w. of El Cajon hunted for a few moments in the rocks. Saw several Uta's and Skellies. Found one yearling gopher coiled up under an old sheet iron scrap. Was lively.

Total miles 35

February

Friday 3,

1928

1928      Saturday 4,      February

Went to Charity Ball tonight. Heard  
many hylas at Coronado.

February Sunday 5, 1928



1928      Monday 6,      February

February Tuesday 7, 1928

*Saw Devin in S.F. today*

1928 Wednesday 8, February

February Thursday 9, 1928

1928      Friday 10,      February

February Saturday 11, 1928

1928

Sunday 12, February

February      Monday 13,    1928



1928 Tuesday 14, February

Went to El Ceyin at noon with Holloway. Went by way of Broadway ext. A part cloudy cool day. 31 miles. Nothing seen.

February Wednesday 15, 1928

1928 Thursday 16, February

February      Friday 17,      1928

1928      Saturday 18, February

Spent the afternoon on my collection,  
sorting and arranging.

February Sunday 19, 1928

Completed sorting and arranging my collection except several lots of juvenile amphibians.

Found amongst the *Uta stansburiana* 4 specimens of what appear to be *Uta microscutata* from San Diego Co and therefore the first from the U.S. I remember having been struck with these black *Utas* when collected at Jacumba.

1928      Monday 20, February

February Tuesday 21, 1928



1928 Wednesday 22, February

February Thursday 23, 1928

1928

Friday 24,

February

February Saturday 25, 1928

1928      Sunday 26,    February

February Monday 27, 1928

1928 Tuesday 28, February

Went to El Cajon Rotary today  
at noon with Holloway. Broadway  
extension. A fine warm day after  
many such. Nothing seen alive  
or dead. 34 miles.

February Wednesday 29, 1928

Went to Capistrano today at 8<sup>30</sup>  
 AM to meet Guillow and Grounsky.  
 Route Capistrano, El Toro (Junction)  
 Serra, Laguna, Oceanside, Escondido,  
 Home. Arrived at 5<sup>45</sup>.

A moderately warm part cloudy  
 day. Noted *Hyla regilla* croaking at San Clemente.

One juvenile gopher DOR at  
 San Luis Rey.

Total miles in county  $64 + 22 +$   
 $+ 32 =$

Recd today from Tom Howley  
 a fine large Aneides lugubros  
lugubros taken in a drain pipe at  
 Hamont and Diamond, Oco Pacific  
 beach.



1928

Thursday 1,

March

March

Friday 2,

1928

To La Mesa (via Univ Extension)  
and return (via Bdwa Extension) with  
Holloway, Guillon and Grunsky. Total  
miles 24

1 Adult garter D.O.R. Marilow  
Park (city)

1928

Saturday 3,

March

March

Sunday 4,

1928

Today compared my specimens of *Uta microscutata* with those sent down by Slevin.

I can find no important differences.

My specimens all have green throat patches compared with blue in the lower Calif specimens.

There is some evidence of difference in tail lengths. but I do not consider this conclusive with so few specimens.

<u>No</u>	<u>Snout to anus</u>	<u>Anus to tail tip</u>	<u>Ratio</u>
57441	40	83	2.07
57440	45	85	1.89
57436	40	68	1.70
57442	40	76	1.90
129	44	67	1.52
25	44	60	1.36
131	42	73	1.74

1928

Monday 5, March

March Tuesday 6, 1928

Went to El Cajon Rotary club this noon with Holloway. A cloudy day after several rainy days.

28 miles. Nothing seen. Went and returned by Broadway extension.

Today I saw at the zoo a vicious Boyle's King from Las Flores. Vibrated the tail violently and struck the glass of the cage. Light rings were unusually dark. They were only about 4 scales wide at mid dorsal line, widening to about 5 scales at the ventrals. The light rings were straw colored and as each light scale was surrounded by some dark skin the contrast usual in these snakes was still further reduced.

1928      Wednesday 7,      March



March Thursday 8, 1928



1928

Friday 9,

March

Received today a juvenile gopher  
from Ed Post taken on Mission Hills. No 431  
not reported in Zoo Book.

March Saturday 10, 1928

1928

Sunday 11, March

Expected to take a trip today but did not go out account Phil sick. Would not have got anything probably as it was a cold cloudy day, differing from balance of week.

March Monday 12, 1928

Went to La Jolla this evening starting at 5<sup>30</sup>. Dark at Moreno so don't count. Saw nothing.

Recd today from C. B. Perkins 2 medium Scaphiopus hammondi taken yesterday at San Ysidro. Were dug out of fresh gopher mounds.

From Abbott the head of a C. exsul taken yesterday at Murray Dam by R. H. Goodrich and B. J. Carteri. Length 5' 1" girth 9" Rattles 16. Head too smashed to save.

Also from Abbott a C. cerastes fine specimen taken by A. A. Beaty Mar 12 in Borrego Valley 1156 E N.W. Cor Sec. 4. Probably at Beaty ranch.

1928      Tuesday 13,      March

Went to El Cajon Rotary Club today. A cool part cloudy day. Went by way of University extension, returned by way of Magnolia extension, Helix, Lemon Grove and Broadway extension. Saw nothing but one Uta. Miles 35.

Drezzling rain tonight.

March Wednesday 14, 1928

To received from C. B. Perkins 5 *Batrachoseps*  
from Tamil. Also saw a can he had  
containing just transforming *Hyla regilla*  
from near Sweetwater.

Recd. 3 *Batrachoseps* from C. Kilgore  
caught in San Diego.

1928 Thursday 15, March



March

Friday 16,

1928

Went to Fowler's Wynola ranch  
with Chickering, Fowler, Peckham, Holloway.  
Started at 2 P.M.; returned at 6<sup>30</sup> P.M.

A fine clear day, dry, with north wind.  
Warm at low elevations; rather cool beyond  
Witch Creek. 119 miles. Went and returned  
by Broadway extension. Stopped only at  
Fowler's ranch where we hunted a few  
moments. No lizards seen.

1 Small gopher D.O.R. Riverview

1 Medium gopher D.O.R. Mussey Grade 1/2 way up

1 Large gopher D.O.R. Near Rutherford Branch.



1928

Saturday 17, March

March Sunday 18, 1928

Today went out to Carrizo Stage Station at the County line with Abbott. Started at 9<sup>30</sup> AM and arrived at about 4<sup>30</sup>. Total distance (Univ. extension) 115.5 mi. A fine clear day. Quite warm on the desert side of the mountains.

Reached Tulean at 11<sup>35</sup> AM. 63.3 mi.

1 horned toad noted at Ballena.

1 large *Nasticophis lateralis* D.O.R. top of Santa Ysabel Grade.

1 Uta A2 (S. end San Felipe Valley).

1 Uta A1 (Box Cañon)

Noted many Utas from San Felipe all the way down. One *Orcuttia* noted at Box Cañon. Crot. coll. *Baylis* at S. end La Puerta. *Callisaurus* at Vallecito. At Vallecito picked up several *H. regilla* (A4-10) and one *H. arenicolor* (A3)

At Carrizo walked around the wash in the afternoon and picked up a few *H. regilla*. Went out on the mesa and got nothing. Got a small *Sonora* occ. under a piece of cardboard near the shed. After supper took lanterns and went out in the wash. Abbott got an unusually large *Coleonyx*. Then went in the swamps and got many *H. regilla* and several *Bufo boreas halophilus*. Hylas very plentiful and noisy.

Cold tonight. Couldn't keep blankets in.

1928 Monday 19, March

Carrizo Stage station. Up at day break. Couldn't sleep anyway a/c cold. No use trying to double blankets on a cot.

Went out hunting in the mesa at 7<sup>15</sup>. Still cool but warming rapidly. Quite hot at 8<sup>30</sup>. Returned to camp at 9<sup>15</sup>. Got Uta, 1 Collesaurus. Saw plenty tracks in the mesquite dunes but was there too early. Saw plenty Uta and a few Colleys. Also maybe one whiptail but couldn't be sure. A11-14 Uta Carrizo; A15 Collesaurus.

Back at camp watched Uta ~~not~~ nod.

Got a fine red racer under a board at old house. Was coiled.

The wash here is about 3 mi wide. Mixed wash, plain and bad lands. Then higher hills on each side. Plenty running water.

Started back at about 11 AM. Quite hot. Saw Colly and Uta opposite Agua Caliente. Got Uta at la Puerta ~~4~~ (S. and A18-19) also a Skelly (cutti? (Aro) Saw plenty Uta along here also few Skellys and Collyo. Got Uta (A16-17) at ~~la~~ San Felipe, south end. Frogs eggs just laid at Vallejo. Saw plenty Uta on Barnes grade at least 1/2 way up.

1 garter DOR Foster large  
" " Riverview "  
Home at 5<sup>30</sup> miles 116 (Bdry ex) [over]

March Tuesday 20, 1928

Recd today 1 Red rattlesnake large. near  
foot of bridge path, Torrey Pines.

1 Pacific rattlesnake large,  
J.E. Elliott, San Juan Hot Springs  
(1 mi s.e.) Orange Co.

Recd on the 18<sup>th</sup> from Clyde Skell  
1 Small *Phrynosoma m'calli* taken  
at Carrizo.

Taking yesterday's trip as a whole I would  
guess the season a little early for the desert  
Reptiles except Uta. Although a few Collyrs  
were seen they were not plentiful. Only one  
doubtful Crem. & *Crotaphytus collaris baylie*  
seen. No *Dipsosaurus*, no *Crotaphytus tessellatus*  
*tessellatus*. Snakes in the desert were as  
usual scarce. Looked hard for garters at  
Carrizo. Negative



1928 Wednesday 21, March

March Thursday 22, 1928

Reed today through Abbott  
a large red rattler taken near so  
by C. N. Ohre, Mission Valley.

1928

Friday 23,

March

Recd today a Horned Toad taken  
at Front and Hawthorne by Miss  
G. Morris 2082 1<sup>st</sup> St City.

March Saturday 24, 1928

A drizzly rain set in at 3 P.M.  
Went out to Mission Valley bridge at  
5 P.M. for toads but found nothing.

Continued from Sunday 25<sup>th</sup> Mar

This is not a particularly good place to  
hunt as the creek is not still.

Wress and the gang then left and Chuck  
and I went down to the bridge halfway down  
the Cañon. Here we hunted. Got about 18  
*Hyla arenicolor*; 4 *Rana aurora draytonii*  
and 1 *Hyla regilla*. The *Ranas* were usually  
in the water; lost a large one that was too deep.  
The *H. arenicolors* were both in the grass  
and on the rocks. Most of them were taken on  
the rocks where on the shady sides they  
were hiding in shallow crevices, cracks, dark  
pools, etc. Got 4 in one shallow crack.  
They flatten themselves against the granite  
and watch it closely. Some times they  
are in shallow depressions where there are  
no cracks.

Caught a garter top of grade. Forgot to enter



1928 Sunday 25, March

Went to Sentenac Cañon today to meet Weiss and Ranger's troop of Boy Scouts (who had gone out Saturday afternoon and camped at foot of grade).

Went out alone; returned with Chuck Weiss. Started at 8<sup>30</sup> A.M.; returned at 6 P.M. 157 miles. Went to regular road, University extension. Returned same way. A cold windy day especially this side of San Felipe. Had rained the night before. Had to use chains on the Banner grade. Not so wet coming back, but no dry for lizards or snakes.

On the way out saw 1 Garter large D.O.R. at Goose Valley junction. Coming back 1 Juvenile Gopher D.O.R. at Riverview. Except for these two and a Skelly at foot of Banner grade no other lizards or snakes were seen enroute..

Met Weiss and the scouts at top of Sentenac about noon. Very windy. They had 1 Garter (foot of Sentenac), 1 *Uta* fine light color (1 mi. east of foot of grade) and 2 *H. arenicolor* from foot of grade.

We then proceeded to hunt at top of grade Weiss on hill, balance on Creek. He got 2 live *Oreocetes* & 1 *Uta stans* (shot). We got about a dozen *H. regilla* and 1 *H. arenicolor* in the creek. Some of the former were females. Polywogs were seen. (Continued under Saturday Mar 24)

March

Monday 26,

1928

Shipped 2 Ranas, 4 Hyla aren., 2 T. o.  
hammondi to Wright; 4 H. aren. to Drs;  
1 H. aren. with parasites to Gwin.  
Also a red and pacific ratt. to  
Mulford at SF.

Removed rattlesnake venom this  
noon.

1928      Tuesday 27,      March

March Wednesday 28, 1928

1 Yearling gopher D.O.R in the park.

Dont miss in list No 1496 Caught today by C. Searl. *Sonora occipitalis*, La Puerta.

1928

Thursday 29,

March

March

Friday 30,

1928

Went to Oceanside with Holloway.  
Start at 10<sup>45</sup> return at 3<sup>30</sup>. A fine  
clear day, cool. Total 84 miles.  
Saw nothing but slept about 20 miles.



1928      Saturday 31,      March

## Photographs

Senterae Red Rattles

Helix Triumphador

Carrijo Red Racer

Beaty's Sidenwinder

April

Sunday 1,

1928

Went to Tamacha (beyond the  
 Sunset water Bridge) with Philip.  
 Started at 8<sup>30</sup>; returned at  
 1 p. B roadway extension both ways.  
 A part cloudy day. Rather cool up  
 on the hillsides - with wind.

1 Gopher small D.O.R. Chollas #5.

No other snakes seen.

Hunted in the rocks north of the  
 road. Got 1 *Uta stansburiana* (485) and 1  
*Uta stansburiana* (484). Got about 9 x.h. in  
 the usual way. Saw S.D.B. and  
 1 young or cuttle. The x.h. were  
 rather easy to get.



1928

Monday 2,

April

April

Tuesday 3,

1928

Recd today from F. Kelsey a small  
*Encrinurus croceatus* (dead) taken at  
 Pine Valley under a rock. Also a  
*B. a. leucopus* from S.D.

\* Gopher snake from Tacumbla April 5<sup>th</sup>. Counted  
 the spots on this snake April 22<sup>nd</sup> before  
 shipping to Miss Stull. He was the usual  
 dark *annectens*. I see no tendency toward  
*desertiicola*. 78 body spots + 25 tail spots.  
 The same may be said of Searl's La Puerta  
 specimen. (note this La Puerta specimen not  
 from La Puerta but from far up Laguna Mt.  
 Glast I caught this)

1928 Wednesday 4, April

Received today from Clyde Seale a number of preserved specimens taken at La Puente. Also a live gopher snake from La Puente.

This is a typical dark annectens with no tendency toward deserticola.

Recd also via Loo 5 fine Encantado croceatus taken near the Pescadero store; 1 large & 1 immature.

Started toward Jacumba with Philip at 2<sup>30</sup>. A cool clear rather breezy day. Evidences of rain the day before all along to Jacumba. Arrived at 5<sup>15</sup>.

1 Small gopher D.O.R. at Chollas Hts (University extension)

1 Small gopher D.O.R. at Alpine.

Total miles 79

Quite cold tonight at Jacumba. Plenty Hyla regilla can be heard.

April Thursday 5, 1928

Went out this A.M. at 8<sup>30</sup>, Returned to hotel at noon. Went to old Uta meansi stamping ground about 3 mi east of Tacumbra. Very warm and comfortable by noon.

Got 2 Uta <sup>484-90</sup> microscutata, 3 Uta <sup>486-8</sup> stans, 1 Phryn. blainvilliei, 1 large Gopher snake. \* Did some very rotten shooting. Saw plenty lizards including Orcuttia, 2 meansi and probably 1 Whip tail. Uta microscutata are in the rocks and quite wary.

In the afternoon drove to the foot of H. S. grade. Stopped several places between Tacumbra and top of grade. Utas were quite plentiful. Got 6 (492-1) and 1 Orcuttia (491) Stomach contained yellow flowers, a worm and what appeared to be a parasitic worm.

On the way down the Mt. Sp. grade saw 2 Chucks. Hunted hard for about 2 hours in rocks at foot of grade. Saw U. meansi, X. henshawi, and U. stans. but got nothing. Hunted in old place on the way back, got only 1 Uta. Saw no microscutata.

In the evening noted plenty B. b. halophilus and H. regilla in almost dry swimming pool. Will catch later.

The Uta microscutata when alive has lemon yellow throat patch and brilliant blue green belly.

Miles in S.D. Co today 17. 22 outside \* See Under Apr 3d



1928

Friday 6,

April

Today went to Oasis, Riverside County and back. Started at 7<sup>45</sup>; returned at 5. Total miles 228 of which only 17 were in S.D. County.

Was rather warm in Imperial County; plenty warm for snakes and lizards.

Fig Tree John's is not on present highway being about 1 mi east.

On the way back stopped at County line (<sup>1.5 rods</sup> Turpentine Rock) and walked west about 2 mi probably into S.D. Co.

a half mile or more. Got 1 *Uta stans.* (498) & *Colley* (499-500) and ~ *Dipsos*. (501-2)

Saw quite a few lizards including ~ whiptails. No question about identification.

Found *Dips* stomachs full of flowers and leaves.

On the way home stopped at a roadside pond bet Brawley and Imperial. Plenty water bugs, showing permanency but no polywogs.

One dead chuck on the mt. spring grade.

No snakes seen alive or dead although it seemed an ideal day in the desert.

April

Saturday 7,

1928

Started out at 7<sup>30</sup> this AM and went to usual place 2 mi east of Tacumbrá. Hunted assiduously on both sides of the road until noon. got 1 *Uta mearnsi* (532) 4 *Uta m. maculata* (531, 503-5) 6 *Uta stans* (506-11) and 1 *Oreocetes* (512). Saw plenty of *Uta mearnsi* in the usual place on the rough granite rocks. Also saw 2 *X. benshami* here where results were negative last year. No doubt as to identification as they were crested moving a rock. Saw many *Oreocetes* including young. *Uta m.* are usually seen on top of rocks especially dark rocks. Seem to be more of a rock lizard than *Uta stans*. Don't take refuge in the ground so readily. Saw a large *Macrogophis lateralis* but lost him. A little windy in the morning otherwise a perfect snake day.

In the afternoon went west about a mile. Hunted hard in the rocks for nearly three hours. got 1 *S. obscuratus* <sup>(513)</sup>, 1 *Uta m.* (514) and 6 *Uta stans* (515-20) also 6 *X. benshami* alive.

Drove up the road to end of pairing and saw 2 yearling gophers Dot Boulevard. Total miles today 26.

Went up to the bridge tonight to look for amphibians. Nothing there but *H. regilla*. Picked up 4 *Thos.* (B.B.H.) and 2 *H.v.* in the swimming pool. Could have got many more if desired.

1928

Sunday 8,

April

Started home from Tecumba at 8<sup>30</sup>  
a strong cold east wind blowing. No  
day for reptiles.

Turned off to Tecate and hunted in  
rocks. Too much wind. Got one X.h.  
then gave it up. Started back and scared  
up a large *Masticophis lateralis* crossing  
the road. Stopped car quickly but lost  
him in the rocks.

Turned up the Cottonwood about a  
mile and got some polywogs (✓ and  
possibly three kinds) also ✓ small *H. regilla*.

Stopped at top of Delzera and hunted  
in usual place. Strong wind still blowing.  
Shot a small skelly and in so doing scared  
out a medium mitchellie which I had  
just passed. Must have come very close to  
him. Caught him OK. Encouraged by this I  
worked hard in the rocks for an hour and  
a half but didn't get another thing. Strong  
wind still blowing. On the way home noted  
the following. 1 *M. lateralis* large D.O.R. Marlson  
1 Gopher snake " "  
1 Red racer large " 285 Rdway  
Arrived home at 2<sup>10</sup>. Total miles 87



April

Monday 9,

1928

Recd today from L. H. Doss, Rincon.  
 San Felipe Wash Pole 732 Taken Mar 23  
 2 Red Racers (mating) and Pole 728  
 1 Spotted night Snake. These poles are  
 near foot of Pertenac Cañon - Yaqui  
 Well. Spotted night also Mar 23.

Remove Venom from 20 Rattles today.  
 11 fresh, 9 old.

With reference to colors of desert  
 animals:

Spotted night above is distinctly lighter  
 than average. lightest I have ever seen.

Uta at N.E. cor. of county very light.

Gopher from Tucumbe as dark as  
 any annexens. Same for gopher from  
 La Puerta.

2 Red racers above are darker than  
 average. Red racers from Carrizo about  
 average for red phase.

Horned toad from Tucumbe average  
 coloration.

Recd tonight a *Sceloporus rugidosum*  
 from Abbott.



1928

Tuesday 10,

April

Spent the noon hour today fixing  
cage signs at the Zoo.

April Wednesday 11, 1928

Recd today from Leet a C.C.  
mormon collected at La Jolla.

Thursday April 12 Continued

1 Snake alive seen at 176.5, was at the side of the road. Wuss didn't stop very quickly and when I went back it was not to be found. From what I saw think it was a young Boyle's King. A little farther on there were two good tracks across the road. Tried them both for a few moments but got nothing.

Fallbrook - Pala Junction 180.8

Horned toad observed at Bonsall.

1 P.C. Annectens small Miramar D.O.R. 216

Everything indicates that snakes were out in force today.

1928 Thursday 12, April

Today went to Riverside and back with Wades to attend an Interchange Club meeting. Started at 6<sup>30</sup> AM; arrived at Riverside at 9<sup>35</sup>. Returned at 1<sup>05</sup>, arriving at 5<sup>15</sup>. Came back by way of Pala. A comfortably warm day with a strong wind in the afternoon.

Total miles 231; miles in S.D. Co 131.

1 M. lateralis large D.O.R. 4.6 Mission Valley

1C. *Oreganus* small D.O.R. 16.7 *miramar*

1 P.C. <sup>0</sup>annectens small D.O.R 28.2 Bernardo

1 C. mitchelli large D.O.R 57.9 Fallbrook  
(Rainbow)

1 S.g. hexalepis large D.O.R 648 County line (Rainbow)

1. M. *f. frenatus* large D.O.R 92.9 Perris (Perris 96.4)

(Country club Riverside 116.5)

1 P.c. annexens small D.A.R. 118.5 Riverside

Stopped to hunt for about 15 minutes in the rocks by the roadside south of Perris. Shot 1 Uta stans. Lewis saw a large red brown snake probably a red racer.

1 M. f. *fronatus* large D.O.R 142.6 Elseniore (Toon 143.6)

1 T.O. hammondii large D.O.R 154.7 Tenebrula

1 do do D.O.R. 156.8 " (Town 159.8)

1 T.S. infernalis do Caught 161.7 " (Branch to Pala)  
(County line @ 165.4) Pala at 170.0  
here

1 P.C. annectens small D.O.R. 170.8 Pala

1 do large D.O.R. 173.7 "

1 C. excul Small D.A.R. 174.3  
See next page left.

April

Friday 13,

1928

1928

Saturday 14,

April

Started at 14<sup>5</sup> miles ooo. A clear warm day, somewhat windy in town. With Allie and Philip. Went out by University Ext.

- 1 Medium *Rhinocheilus* DOR at 7.4 Chollas Hts.
- 1 Small gopher D.O.R. at 10.4 La Mesa.
- 1 Medium *tateralis* DOR at 25.9 Foster's.
- 1 Medium Gopher DOR at 33.0 Shady Dell.

Stopped and hunted in the rocks at 40.6 about 3 mi beyond Ramona. Shot 1 *Utastans* No. 540. Plenty of lice. Got 1 Med. *C. exsul*; was on the move when first seen. Got 1 large *exsul* coiled under a rock in the shade. Had a full set of rattles 13 coming to a point. Best set I have ever seen. Very unusual. As we came back to the car got a medium gopher beside the road. Observed whiptail, x.h., skelly and orcutte.

Got one small *Oreganus* crossing the road at 45. + Sutherland. This was at 4<sup>15</sup> P.M.

Arrived at Los Tules at 5<sup>10</sup> miles today 71.2. Elevation 3750 Very quiet and pleasant but cold at night.

Went out in the evening and got plenty male *H. regilla* calling in a pond.



April

Sunday 15,

1928

Next morning walked up to the falls. Found a small *B. b. halophilus* under a board.

Started out toward Oak Grove at 7<sup>30</sup> AM. Miles 000. A clear warm day; little wind. Ideal for snakes.

First stop south of Oak Grove @ 12.7. Hunted in rocks; got 2 large exsels. Were sunning themselves on a south ledge about 5 ft apart. They were captured without difficulty. No fight. Encouraged by this hunted hard at this and 2 other points near Oak Grove until 11<sup>30</sup> but got no more snakes. Plenty lizards in evidence. Got *Uta*s, skellys, *X. h.* and whiptails. Plenty *Oscuttes* seen but none caught.

Got a large *lateralis* under a rock at 16.8 bet. Oak Grove and County line but squashed him when the rock slipped. County line @ 19.8. Hunt one large *X. h.* at 26.7 in Riverside Co (Agua Caliente) hunched at 32.7; started on again at 1<sup>30</sup>.

S.D. County again at 45.4 Total miles in Riverside Co. 25.6. Saw *Uta*s and skellys in the road bet Co. line and Pala.

1 large *Gopher* D.O.R. at 48.3. Pala at 50.7. Got a horned toad at Bercin and another at Escudido.

1 large *Hammondi* large caught crossing the road about 1½ mi e of Escudido (79.5).

1928

Monday 16,

April

Recd today from Sam Mc Gorney a  
 five large boa with the bluntest tail I  
 have seen yet. Wt  $1\frac{1}{8}$  lb. from Patreco.

→ Home at 4<sup>45</sup> Total miles 116.6. S.D. Co  
 miles 91.

Was surprised and disappointed at lack  
 of snakes on the road today. A perfect day  
 at nearly the peak of the season - heavy traffic -  
 yet there were no snakes from Pala in except  
 1 garter. (Pala - Rincon - Valley Center - Escudido)



April

Tuesday 17,

1928

Went out to El Cajon Rotary Club to make up. Started at 11<sup>30</sup> AM.; return at 3 P.M.  
 Univ - El Cajon - <sup>Boston</sup> Dehesa Corner - Jamacha -  
 Bdway Ext. Total miles. 46.1. A cool part  
 cloudy and somewhat windy day.

1 Hammondii D.O.R. at Spring Valley L

1 Rhinoceros L DOR at Marlon Park.

Lost a horned toad at El Cajon; got one at Jamacha.

Today saw at the Zoo

1 Gopher Snake Pale Kw Stott. L.

1 Boa Garcia Mex

1928 Wednesday 18, April

Recd today from Dr. Sumner  
a large koa taken  $\frac{1}{2}$  way bet Laway  
and Palmyra (Int. Woodson) April 8<sup>th</sup> —

April Thursday 19, 1928

(May 7 Continued)

He now proceeded to work his jaws toward the head of the mouse after which he began to swallow. Seemed to have met trouble with head and hips especially the latter. There were long waits without movement. After only the tail was showing there were continued long waits with the mouth open and no swallowing movements. The tail finally disappeared - total time since catching the mouse 29 min. We then waited to see what it would do but it was quite evident it was watching us so we caught it. Retained the mouse when we reached home.

Then proceeded to Int. Springs. Stopped part way down grade and got plenty tadpoles large and small in shallow stream barely flowing above ground. Probably are new color.

Hunted for a while at the foot of the grade. Got 1 Chuck in a rock crack but lost him. Got 1 *Uta* *maurisi* 63<sup>5</sup>/<sub>8</sub>. Turned back at 103.8. County line again at 109.9. Total miles Imperial Co 11.9

Stopped for leaf mold and frogs but Clover Flat and Campo. Reached home at 7<sup>40</sup>. It was dark at Indian Springs. Might have missed snakes from then on. Miles today 147.3 - 11.9 = 135.4  
S.D. County

1928

Friday 20,

April

(May 7<sup>th</sup> Continued)

Snakes seen were as follows.

1 Gopher Small Caught on the road at hirc  
Oak Springs Branch.  $4\frac{1}{2}$  w. of Boulevard.

1 Patch nose Small D.O.R Boulevard 83.1

2 Red Racers 1 L 1 M DOR Tacumbla.

(large had eaten a rat).

1 Red Racer M. Caught 2 mi e. of Tacumbla.

(ate a mouse. not on road).

1 Arizona L DOR 3.2 mi w. of Mt. Springs.

1 Rhinoceros L DOR 0.5 mi. e of Mt. Springs.

1 Red Racer L DOR 0.6 mi. e. of Mt. Springs

1 Tremorphodon\* S DOR 3.4 mi. e of Mt. Springs.

1 Lateralis S DOR. bet Blvd & Tacumbla 122.4

1 Rhinoceros L DOR Campo RR Xing.

1 Gopher S DOR Campo (1 mi w)

1 Gopher L DOR Campo (2 mi w)

1 Gopher S DOR Campo (3 mi w) 143.3

1 Patchnose S DOR Buigville 145.3

1 Exsue L DOR Pulzura summit 162.1

1 Gopher S DOR. Pulzura 163.1

1 Gopher L DOR Pulzura 165.4

1 Garter L DOR Tameul 171.6

S.D. 197.3 = 297.3 - 100 yesterday = 197.3 today

\* Body spots 39 + tail 16



April Saturday 21, 1928

Went out today in a Co. Ford Coupe.  
 With Philip. Start at 14<sup>45</sup>; return at 5<sup>30</sup>.  
 A fine day with slight breeze.

Route: Broadway Ext., Spring Valley,  
 Jamacha over the hill to Jamel Road,  
 Lyons Valley, Barrett Dam, Cottonwood,  
 Dulzura, Jamel, La Mesa, Univ. Ext.  
 Stopped only a few moments at Lyons Valley,  
 Cottonwood and Dulzura summit.

At Lyons got 1 X.h. Saw Skelly and  
 Ocuttis. Also a small horned toad.

At Barrett saw many utas and one or  
 more Ocuttis.

At Cottonwood got one horned toad.

at Dulzura summit saw skellys and  
 Ocuttis. Got 1 X.h. with red legs  
 No live snakes seen.

1 Banded Racer DOR at Chollas Hts large

1 Mexican Gopher DOR at Spring Valley

1 large Boa DOR at Dulzura Summit

Total miles 82

1928

Sunday 22,

April

Went out today with the family and Ella. Started at 9<sup>30</sup>; returned at 5<sup>15</sup>.

Itinerary. University extension, El Cajon, Dehesa, Glen Lonely, Tapatul, Descanso, Old Viejas Grade, Alpine La Mesa, Lemon Grove, Broadway extension. Total miles 92.

A clear day fine at the start but windy and overcast in the afternoon. A little too cool for the best results.

Stops. A. bet Alpine Hts and Glen Lonely. Got nothing.

B. Top of Glen Lonely grade. Got one Uta stans.

C. At old stone house near Tapatul. Stopped here for lunch. Hunted about an hour but got nothing.

D. At reservoir - Old Viejas Grade. Hunted quite a while. Got 1 Skelly.

Saw plenty skellys, ornuttis and utas at B, C. and D. Also Xh. at C. and D. Horned toads at El Cajon (caught) Bortonia (lost) Tapatul (caught) Tapatul (lost).

1? crossing the road. lost at Tapatul.

1 Young Garter caught crossing the road at Tapatul

1 Young Gopher D.O.R. Alpine.

1 Cal. King Snake D.O.R. Grosmont.

A rotten day for so near the peak of the season

April Monday 23, 1928

Removed venom for 38 snakes this noon.

Noted that the Ramona exsul with the full set of rattles had 12.



1928

Tuesday 24,

April

April Wednesday 25, 1928

Today examined a very  
conspicuously marked *T. o. hammondi*  
from Nestor taken by B. Floerssch, April 24

The head above is polished olive green.  
The back is olive green with black  
spots. which spots are unusually regular  
and distinct. 3 series anteriorly, 4  
posteriorly to center of body, then three  
again. Many are almost round. There  
is an additional series on the sides in  
the yellow.

1928      Thursday 26,      April

Boil on hip practically cured today.

April

Friday 27,

1928

Reed from Weiss today a *Rhinoceros*  
*lecontei* from Chula Vista. Caught  
on the golf links at 5<sup>30</sup> P.M. 26<sup>th</sup>

1928

Saturday 28,

April

This afternoon went to Clover Flat (Mercier's Lodge) with Cliff Johnstone and Philip. Started at 2 P.M. arrived at 5<sup>30</sup>. Went out by Broadway extension, La Mesa, Jamul, Campo. Total miles 67.5. A fine clear day.

1 *Rhinodermus lecontei* L. D.O.R. 7. 1 San Diego

1 *M. lateralis* Lg D.O.R. 8. 9. San Diego.

1 " " " 9.5 " "

1 *P. c. annexens* M " 14.5 La Mesa

1 *M. lateralis* Lg " 30 Dulzura.

1 *C. exsul* 5 Caught on road at 39.7 Cottonwood. Maybe slightly hurt.

Hunted about one hour at top of Dulzura grade. No snakes seen. Got 2 *orecutis* 609, 610. Also one *x. h. later* lost.

Surprized at the lack of snakes alive & dead from Cottonwood out.

Recd from Johnstone an Arizona Coral King

April

Sunday 29,

1928

In the morning the kids caught 4 small Bufo <sup>Cognatus</sup> ~~torresii~~ californicus hopping along by the creek in loose sand. Plenty hylas reg. heard the night before.

One dead garter in the creek. Another was seen but not by me so cannot count.

Hunted north east of the lodge from 8 to 11 AM with Chace, Johnstone and Weiss (part time). Worked hard. Got 1 medium patch nose in adaximosterna and one medium garter in creek. Saw several whiptails which could not be shot.

Got the following.

Skellys 611-615

Xantusia h 616

Orcuttia 617

Uta stans 618-624

Got one live horned toad and 1 small skelly. This was a perfect day and proper season; And was much disappointed in both lizards and snakes. Can only attribute this to the quality of the granite boulders which were soft. Virtually no flakes or cap rocks. Tried both cañons and ridges.



1928

Monday 30,

April

Sunday April 29<sup>th</sup> Continued

Started home at 1<sup>30</sup> with Johnstone and Phil. Came home by way of Campo, Cuyamaca, Julian, Lakeside, La Mesa Broadway Ext. Arrived at 7 P.M. Perfect weather. Miles 115.

1 <i>C. exsul.</i> med	D.O.R.	79 Campo
1 <i>L. roseofusca</i> lg	D.O.R.	88.2 Buckman's
1 <i>P. blainvilli</i>	"	Julian.
1 <i>T.o. hammondi</i> lg	"	Santa Ysabel
1 <i>M. lateralis</i> lg	"	Sutherland
1 <i>M. lateralis</i> lg	"	Ramona.
1 <i>P.c. annectens</i> med	lost at	Ramona

(Was passing, another car and couldn't stop quickly)

1 *P.c. annectens* med D.O.R. Shady Bell.

1 *M.f. frunatus* lg " Santee.

Stopped at the pond south of Buckman's and got *H. regilla*, *B.c. californicus* and 1 Rana. Noted few poly wogs. The Bufo hop in loose sand. Show great color changes. Saw a skink here.



May

Tuesday 1,

1928

1928

Wednesday 2,

May

May 3<sup>d</sup> Continued.

Wineberg gave me a large *Testudo*  
*kabulata* from North Africa. Says it  
 eats vegetables - lettuce.

Wineberg showed me a collection of  
 snakes taken at Oleta, Amador Co, Calif.  
 including:

1 Garter snake no stripe (probably *T. o. conchii*)  
 gave it to me.

1 Ring neck. very dark below (gave it to me)

Several *Contra tenuis* (gave me a couple)

2 Boyles Kings. (The white rings rather  
 narrow and pure white)

1 Western Yellow Belly - small and  
 light color.

Several gophers looked like the usual  
 northern specimens (probably *heermanni*)

May

Thursday 3,

1928

Drove to Los Angeles this AM  
with gg. Total miles 136. miles in S.D. Co  
62. Started at 9 AM; arrived at 1 P.M.

A fine clear day.

1 long nose L.	D.O.R.	Old Town
1 Gopher M	DOR	Pacific Beach
1 Gopher L	DOR	La Jolla.
1 Cal King L	DoR	La Jolla
1 Gopher S	DOR	Oceanside
1 Gopher L	DOR	Serra Oran Co.
1 Red Rattles M	DOR	Whittier L.A. Co

Lectured tonight before the Herpetological  
Society of California at L.A. Public library.  
Used Antivirgin Inst. Film.

Saw some interesting specimens which various  
members had brought in.

U.S. Rogas, 717 S. Figueroa had a Dipsosaurus  
taken 3 mi n. of Calabasas, unusually dark  
around the head. Probably an maculata locality

W.B. Cannon had a yellow brown uropygus  
taken between Lancaster and the Ridge Route.  
Gave it to me; will get exact locality data  
later.

Bogert of the Trail finders told me of  
a Chuckawalla taken at Honey Jay Buttes  
L.A. County. Should be considered an L.A. County record  
(See May 2nd)

1928

Friday 4,

May

Started home from Los Angeles today at 8<sup>10</sup> and arrived at 12<sup>20</sup>. A clear day - rather warm. 134 miles, 62 in San Diego County.

1 Gopher large D.O.R.	Whittier.
1 Gopher large Caught	Capestrano
1 Boyles King large DOR	San Onofre
1 Red Racer small DOR	Oceanside
1 Longnose large DOR	Morena
1 Red Racer large DOR	Morena.

Noted today a Rhinoceros that vibrated its tail.



May

Saturday 5,

1928

Spent the afternoon at the Cooper Club Meeting at the Natural History Society.

Recd a small collection of reptiles from C.B. Perkins taken at his ranch about 20 mi N.W. of Delta, Utah in Millard Co.

Also recd a collection for the Natural History Society from C.C. Searl mostly taken in Riverside Co.

Heard today in perfectly good authority of *Ensatina croceata* taken on both Palomar and Hot Springs Mts. Also Saunders Meadow, Idlewild, Riverside Co.

Note on mt. *Helix Triumphodon*  
Total length 335 mm.  
" to A 280 "

Sunday May 6<sup>th</sup> (Continued) Got 1 large Rana. No bull heard tonight. Snakes.

Rhinocheilus	L	DOR	7.6	Rio San
"	L	DOR	8.9	do.
Gopher	S	DOR	21.8	Riverview
"	S	DOR	23.0	"
Garter	L	DOR	56.0	Witch Creek
Gopher	L	DOR	59.9	Santa Ysabel
"	S	DOR	143.7	Guatay

1928

Sunday 6,

May

Started out with Storer at 9<sup>15</sup> AM. Cloudy and cool. Went out via Broadway extension, La Mesa, El Cajon, Lakeside, Ramona, Santa Ysabel, Warners, Los Tules (got pistol) San Felipe, Sentenac Cañon Bridge, Banner, Julian, Cuyamaca, Pine Valley. Stopped at Pine Valley for the night. Part cloudy all day but pleasantly warm. Total miles for the day 150.

First stop at Lakeside lake until 10<sup>50</sup>. Got *Hyla regilla* and 1 Rana. Stopped at pond beyond Ramona. Plenty young *Hyla regilla* and tadpoles at this point. Stopped at Creek west of Santa Ysabel. Got 2 Ranas here - 1 very large female.

Stopped at creek near Warner's Ranch House. Got small tadpoles and large terrapins here. Miles 81.1. Lost a horned toad in San Felipe Valley.

Hunted at Sentenac Cañon Bridge. Got 3 Utas 128-130 and 1 Orcuttia 131. Storer got plenty tadpoles. Rather overcast and cloudy here. Saw several Ranas but no *Arenicolor* on the rocks as before. Stopped on Julian Cuyamaca road and looked under logs. Got nothing. Foggy here.

Reached Pine Valley at about 6<sup>30</sup>. Had dinner and went across the valley. Couldn't find the place where *californicus* was caught last year. Heard *regilla* and *arenicolor*. Lamp went out. (Continued on previous page)



May


Monday 7,

1928

Started out this morning from Pine Valley at 8<sup>15</sup>. Cool and cloudy, later clear. Rain in town.

First stop at usual pond Cottonwood Bridge 3½ mi. S. of Buckman. Plenty yearling californicus hopping on the sand. Storer watched me dig in, & dug one out. More today than last week. Plenty toadpoles. Also got 3 arenicolor and 1 regilla. Got 2 Utae 1705 632-3. Saw scutellus, skellys and 1 Gerrhonotus. Sittes under bark of tree. Left here at 10<sup>45</sup> - now sunny and warm.

Stopped east of Tacumna and had lunch - then hunted south side of road for Utae. Got 1 Stans. 634. No micrioscutata in sight.

Dr. Storer saw a medium red racer at some distance; seemed to be watching something. White footed mouse ran out of bush with snake after it. Caught it in about 10 ft. Caught by the middle and seemed to be killed by pressure of the jaws. There was no constriction, nor any pressure by the body. After holding for a few moments the snake glided<sup>20'</sup> to the shade of a juniper carrying the mouse with head well up about 6" off the ground. In the brush he had his body in this shape 

(Continued page April 19)

1928

Tuesday 8,

May

Storer worked in my laboratory this afternoon.

This afternoon saw snakes collected by Pearl as follows

1 Long Nose L D. OR Ballena <sup>May</sup> April 7

1 Boa L D. OR San Felipe Sentenac Cañon  
Entrance gate <sup>May</sup> April 7

1 Red Racer L Caught at same location  
as above. Got this one

1 Horned Toad Some N.W. of Wainers  
on Oak Grove Road April 2nd

→ The color is dark red brown. The cross bands are quite distinct for the anterior half of the body. The head and first 2 rings are black. The under surface is white spotted with dark. Pink under the tail. The snake is an adult, too large to pickle.

May Wednesday 9, 1928

Storer worked in laboratory and library all day today.

Rained much of last night. Cold cloudy and windy today.

1928

Thursday 10,

May

Stores worked in the laboratory this morning.

Nursing a bad boil on the hip today.

### Natural History Society Reports

J. E. Morrison Boyles King Snake  
San Diego May 5<sup>th</sup>

Hemsley Gopher Snake Park.  
May 10<sup>th</sup>

### Data on 4 snakes taken by Huey in lower California

1	Punta Prieta	Feb 21	1928	<i>H. ochrochelys</i>	1552
2	San Ignacio	Feb 25	"	<i>Pituophis catenifer</i>	
3	" "	Feb 27	"	<i>T. o. hammondi</i>	
4	" "	Mar 1	"	"	

May

Friday 11,

1928



1928

Saturday 12,

May

Went to a movie in afternoon but worked hard pickling specimens in the evening.

Saw at the Zoo this AM some interesting rattlers:

- 2 Real *C. tigris* from Evans at Phosmip
- 1 *C. mitchellii* of peculiar coloration from same dealer.
- 2 *C. mitchellii*? from near Duggett, without the granules but the rostral and the anterior nasal.

Cloudy most of last week.



May

Sunday 13,

1928

Went on a short trip today with Ella and Family. A fine clear day but no luck. started at 11<sup>30</sup>; returned at 5<sup>30</sup>.

Old Town, Hodges, San Pasqual, Clearing Grade, Ramona; returned via Lakeside Bortoni (cut off) south El Cajon road to Tamacha road thence via Lemon Grove and Broadway Extension.

Stopped for lunch about 3 mi beyond Ramona. Hunted here from 2 P.M. until 3<sup>45</sup> in the rocks. Got only one young *Oncitli* (710) and 1 *Verticaria*. Not a snake seen.

On the road.

1 Cal King Medium	Camp Kearney	15.3
1 Pacific Rat Small	Misamar	17.0
1 Gopher Med	San Pasqual	38.8
1 Cal Racer large	Ramona (stopping place)	52.0
1 Gopher large	Spring Valley	83.8
1 Gopher large	Chollas Mts.	89.7
1 Cal King large	City	91.5

Total miles 97.

1928

Monday 14,

May

Recd today from Pearl & Boyles King's taken yesterday; the larger at Jamul Ranch, the smaller at Otay Mesa. Also he noted a dead one on the road at Dulzura. (not entered in tabulation)

Removed venom from 5 snakes this noon.

Noted that Molossus has unusually long fangs for its size and gives plenty of venom. Has small scales between anterior nasal and rostral but this does not prevent contact.

No venom from 2 specimens of *C. tigris*.

1 large exsul had white venom. Had been milked before.

1 *Mitchellii* had the anterior nasal in contact with the rostral although the usual row of small scales had partly separated them. 2 others from Daggett were fully in contact.

May

Tuesday 15,

1928

1928

Wednesday 16, May

May Thursday 17, 1928

May 20<sup>th</sup> Continued

Started from Tacumbla for home at 1 P.M. miles 19.5. Still clear and warm. Did not stop on the way here except for leaf mold. Arrived at 4<sup>30</sup> miles 97.6. Hit a high fog at top of Bulzura grade; Cloudy from there in.

1 Boyle's King L DOR Campo.

1 Timorophodon L DOR Cottonwood

(Part way up grade; saved).

1 Gopher S DOR Tamul

1 Gopher L DOR Tamacha

1 Lateralis M DOR Chollas Hts

1 Gopher L DOR San Diego

1 Gopher L DOR San Diego

1 Longnose M DOR San Diego

\* All these on Broadway extension.



1928

Friday 18,

May

Reed today a medium  
Mitchellii taken May 16 at Barrett  
Dam. C.B. Perkins.



May

Saturday 19,

1928

Started for Tacumbla at 14<sup>0</sup>  
in the afternoon with Phil. Weather  
cloudy and cool as all week.  
Went out by University extension  
and old Viejas grade. Arrived at  
5<sup>15</sup>.

1 small long-nose D.O.R at 7.5 S.D.

1 large lateralis D.O.R at Flynn Springs

1 small red racer D.O.R at Alpine

1 large gopher D.O.R at La Posta 63.5

A few vitas seen crossing the road.

Part cloudy at Flynn Springs.

Clear and warm at Buckmans.

Stopped about 1 mi from Tacumbla  
and hunted in the rocks for 3/4 hr.

Too late in the afternoon. Lost 3 x.h.

Got 1 *Amniella* under an old sack.

Saw an orcutter.

In the evening went out and got  
20 B.b. *halophilus* with a flashlight.

One took refuge down a hole.

Total miles 81.0

1928

Sunday 20,

May

Today was a fine clear warm day. No wind in the morning. Started out from Tucumla at 8<sup>10</sup> AM. Went east to usual hunting ground 3 mi east. 1 Boyles King Small D.O.R. at 2.9 (Tucumla).

Hunted on both sides of the road until about 11<sup>30</sup>. Got 4 *Uta microscutata*, many *Uta stans* and 1 *Uta mearnsi*. Saw no snakes. Saw plenty whiptails, 1 X.h.; also several *Oreocallis*.

Checked the 4 *Uta microscutata* against Ridgway very soon after they were shot.

Throat color of female = pale lemon yellow; belly cendre blue fading to Venice green posteriorly. First male light greenish yellow edged with orange. Belly cendre blue.

Young male throat strontian yellow; belly bremen blue. Large male with end of tail off. Throat bright Chalcedony yellow. Belly bremen blue to beryl green. No orange on this one.

Went to Mt. Springs and hunted about 20 minutes on the flat. Got 1 *Uta stans* and 1 *Uta mearnsi*. Saw several *Uta mearnsi*. Back at Tucumla at 12<sup>30</sup> miles to here 19.5  
(Continued to May 17<sup>th</sup>)

May

Monday 21,

1928

1928

Tuesday 22,

May

Noted today a worm snake from San Diego, considerably more reddish brown above than usual.



May Wednesday 23, 1928

In color it is decidedly more like *T. lyrophanes* than *T. vandenburghi*. The body color is light gray; the spots are light brown. The head is lighter than any *T. vandenburghi* I have seen. Altogether it looks like the lower Cal. specimens from the U.S.N.M. Body spots 34, tail spots 17. The count of body spots is not very definite as many of the secondaries go clear across and others are indefinite.

Anal undivided. Scale rows 1" back of head 28; at mid body 23. Near 15 Ventrals 129. Probably M C 70 com.

The ventrals are quite white. The primaries and secondaries engage the edges of the ventrals.

Supra labials R 8 L 8 Lower 12 L 10 Preoculars R 4?, L 3 Post oculars R ? L 3. Temporals can't be determined of damage. to specimen. Sub-buccal present on left; not clear on right of damage.

1928

Thursday 24.

May

Photographs today of *C. tigris*.

Recd today word from Timmons at Tacumbla that the Gila Monster he sent in was from Tacumbla!

Recd today from Bogert a specimen of *Trimorphodon* taken at Red Rock Cañon, Kern County. Also he tells me & he secured there a *Salvadora* of peculiar coloration.

He also tells me he caught a *L. roseofusca* near the railroad bridge north of Victorville, and sends a photo to prove it. He saw *Cnemidophorus* and *Callisaurus* there. I have taken the latter there.

As to the above mentioned *Trimorphodon* it was found <sup>Saturday</sup> ~~Sunday~~ morning, May 12 1928 in lower end of Red Rock Cañon, dead in the road.

(Continued on May 23<sup>d</sup>).



May

Friday 25,

1928

Recd today from Kilgore  
a Ring-neck from I.D.; also Annielles  
from Pt. Goma.

1928

Saturday 26,

May

Went to "Wings". Pickled specimens.

Notes on a live Tiger Rattles. One of the two from C. H. Evans.

The cross stripes are brown formed of a multiplicity of dark dots. The light stripes between are pinkish gray lighter on the sides. The colors are darker anteriorly than posteriorly and the stripes are less distinct. The iris is yellow, the pupil vertical and very small in bright light. The head is unusually small. The color below is orange pink mottled with darker.

May

Sunday 27,

1928

Went out today with the family and Lett. Started at 10<sup>10</sup>; returned at 5<sup>45</sup>. 143 miles.

Cloudy along the coast; fair and pleasant inland (about 10 miles).

Route: Morena, La Jolla, Camp Kearny, Bonsall, Monserate, Red Mountain, Fallbrook, Bonsall, Oceanside, La Jolla, Mission Beach.

At Bonsall saw a hawk carrying a small snake. Snake seemed limp.

Stopped only at one place: about 2 mi n. of Monserate. Had lunch here. Hunted in rocks (not extensive), along road and along creek for over an hour. Got one *Uta stans* (743) and 1 *M. lateralis* (744). latter was crawling in leaves under tree. Saw also 1 Skelly; 3 *Verticaria*; also probably a large whiptail but can't be sure.

1 Long nose Medium DOR Morena 6.0

1 Red Racer Large DOR City Farm 17.3

1 Cal. King Medium DOR Camp Kearny 24.3

1 Cal King Small DOR Poway 36.1

1 Red Racer Large DOR Fallbrook 83.3

1 Cal. Racer Medium DOR Bonsall 89.4

1 Red Racer Large DOR Carlsbad 106.

1 Cal King Medium DOR Del Mar. 120.5.

cliffs above beach.

1928

Monday 28,

May

Removed venom from 4 rattlers today prior to shipment.

Noted a Boyle's King  $47\frac{1}{2}$ " long.  
An unusually large female.

Noted a red racer from Garcia, Mex today; very dark - much black on the upper surface but not a true picinus.

Got a Pacific Garter today from  
Walker taken in <sup>San Diego</sup> Alvarado <sup>Prov.</sup> Canon

Shipped snakes this noon to  
Alevin (via Mulford), Guthrie, Regis  
and Faull.



May

Tuesday 29,

1928

May 30<sup>th</sup> Continued.Dip on rock at 81.5 nearer Yaqui well  
than Harrows

County line 97.1

1	Deserticola	large	Westmoreland	122.2	DOR Fields
1	Arizonia	small	Mt. Sprung's	184.0	DOR Sand & Rocks
1	Gopher	small	Boulevard	199.0	DOR Field Brush.
1	Garter	med.	La Porta		DOR stream & green grass

1928 Wednesday 30, May

Went out with C. Pearl today. Started at 8<sup>40</sup>; returned at 8<sup>30</sup>. Cool and cloudy on the coast; warm and pleasant in the back country; cool in the mountains; hot and windy in the desert.

Total miles 273; miles in San Diego County 185; miles to be counted 145 as the last 40 miles were in darkness and snakes could not have been seen.

Ponte Univ. Extension, Lakeside, Julian, Santee, Borega P.O., Kane Springs, Westmoreland, Imperial, near El Centro, Jamacha, Pine Valley, Willows, La Mesa, Bolivar Extension.

Hunted in sandy and rocky wash beyond the Harrows for 40 minutes after lunch. Quite hot. Nothing seen but Utae and they in the shade. Along the road from Yagui Well to Borega saw Callis and Dips perched on rocks. The Callis stand high with stiff legs. ~~Also~~ Also saw Utae and Whiptails but the latter were not perched on rocks. Took 1 Dip, several Utae and Callis. This is the only place where we hunted.

1 Gopher medium	Santee	17.8	D.O.R. Grass
1 Pacific R. Small	Sutherland	<sup>23.9</sup> <del>44</del>	D.O.R. Chaparral
1 Lateralis medium	Wynola	56.0	Lost Grass
1 Gopher large	Wynola	56.7	D.O.R. Grass

See map 24



May

Thursday 31,

1928

Today recd from Gas Co truck one gopher large and one red rattler medium taken at Santa Fe Ranch. From gas Co clerk 1 Gopher large taken at Tamacha. From C. B. Perkins the head of a red racer taken in Coronado.

From G. E. Barrett, 2883 45<sup>th</sup> St (The Cactus Man) 1 Boyle's King from 10 mi N. of Vista and 1 Desert Tortoise from 40 mi N. of Yermo.

Opened up a small organon and found it to contain a large rat. Snake was 15" long;  $7\frac{1}{16}$ " across head at widest part and  $1\frac{1}{8}$ " circumference of neck. Looked impossible it could swallow the mouse. Snake No 745

Examined today the blackish red racer from Tamacha. The head is black on top with a white spot below and back of each eye and the usual white crescent in front. The back is black mottled and faintly striped with light. Toward the tail it is olive brown. Color below is yellow.

1928

Friday 1,

June

June

Saturday 2,

1928

Went out this afternoon with C. Pearl. Started at 1<sup>30</sup>, returned at 5<sup>45</sup>. Cloudy in town, clear and pleasant in the back country.

Univ. Extension, La Mesa, Bostonia, Puncrust, Bostonia, Hillsdale, Tamacha, Broadway Extension. 55 miles.

Hunted only at one point namely Puncrust. Hunted in rocks burned over probably last year. lizards except *Xantusias* were scarce. Got 1 Uta and 1 Skelly. 14 *Xantusias* alive. Lost probably an equal number. Think this indicates *Xantusia* through their life habits are better able to withstand fire than the others. Was surprised to note *Xantusias* under caps as frequently as under flakes. Sometimes flat caps. Once a flat and dirty flake.

1 Garter DOR Radio S. hedden Creek (dry).

1 Gopher DOR Radio S. large Brush.

1 Gopher DOR Radio S. medium Grass.

Only snakes seen were on Broadway Extension.

1928

Sunday 3,

June

Went out today with C. Seale. Started at 9 AM.; returned at 6<sup>15</sup>. Cloudy along the coast (to Poway summit) clear and comfortably cool in the back country. Route. Murphy Cañon, Escondido, Rincon, Henshaw Dam, Santa Isabel, Ramona, Lakeside, El Capin, south over hill, Spring Valley, Bdway Extn. Total miles 141.9.

First stop Rincon; hunted for about 3/4 hour in rocks along road side. Got 4 Uta's, 1 Skelly, 1 Whiptail. Lost many Uta's in rocks after shooting. Rincon = 54.2 mi. Stopped for lunch at 65.6 (5 mi w. of dam) Hunted here for a short time and got 1 Skelly. Saw an Onociti and several Uta's, but was not a good place for lizards. Last place we hunted was in rocks west of Ballena where I saw a Skelly and 1 small X.h. Hunted here about 20 minutes but got nothing. No live

Snakes were seen today but dead snakes were OK.				
Medium	Red Rat	City	6.1	Chaparral. DOR
Medium	Long nose	Murphy Cañon	9.1	" "
Small	Garter	Poway	21.4	Grass & Creek
Large	Western Y. Relly	Escondido	35.5	Fields
Large	Boa	Valley Center	49.2	Chaparral
Large	Pacific Rattles	5 mi w. of Henshaw	65.5	" "
Large	Gopher	Henshaw	73.3	Grass
Med	Gopher	Henshaw	69.4	Trees
Large	Garter	Sutherland	94.6	Grass & brush
Large	Long nose	Ramona	95.4	Brush & rocks
Large	Red Racer	Forster	110.0	" "
Large	Red Racer	Lakeside	113.3	Fields
Med	Gopher	Santee	117.6	Grass
Large	Red Racer	El Capin	120.3	Fields

Bufo boreas holophilus dead at Santee. Noted today that Uta's at Rincon stand up with bodies well away from rocks when hot. Like Callie's



June

Monday 4,

1928

Milked 51 rattlesnakes today. long tedious job on account of many varieties and very disappointing as to quantity.

Pickled 16 rattlers tonight.

1928

Tuesday 5.

June

Went to La Jolla today on business. Started at 2 P.M.; returned at 4<sup>30</sup>. A cool cloudy day. Total miles 36. Went via Rose Cañon and Hog Cañon.

1 Gopher large D.O.R. Rose Cañon Brush.

1 Pacific Small Caught " " Grass & Brush.

1 " " D.O.R. " " "

1 Boyles King large Brush Hog Cañon. D.O.R.

At Scripps Institution noted 2 *Aneides* (1 large 1 small) caught on grounds. Also 1 from La Jolla.

Noted the following in the collection of the Institution: all caught on the grounds.

*Amphispiza bilineata*

*Geophomus scincicauda websteri*

*Uta stansburiana*

*Crotalus eximius*

*Crotalus oreganus*

*Pituophis*

*Sigmodon hispidus* (new locality).

*Tamias eximius* (3)

hamp. get. koyii

hamp. calif. calif.



June Wednesday 6, 1928

Notes by C. Seale on a trip he  
made this day. 133.8 miles.  
All these DOR.

- 17.1 Patch nose. Tunnel Hill. Buckwheat either side
- 21.5 Flynn Springs. Boa Rocky Hill on left. Small  
open grain field and crest on right.
- 27.7 Gopher. Alpine School House. Oaks, creek  
bed and chaparral on right. Left. Oliver's  
and house on right
- 30.6 Gopher. Hammony Hills. Orchards.
- 43.9. Pine Valley. Red Rattles. Brushy hillside.
- 66.5 White Star Cafe. Pacific Rattles. Junction  
of 2 highways. Open ground with rocks  
and scattered oaks.
- 105.0 Dulzema. Gopher. Mt. side 100 ft above  
creek bed.

The above not counted in  
annual list.

1928

Thursday 7, June

Went to Los Angeles today with Weisz. A cool cloudy day. Miles in the county 59.1. Total miles 130. Went via Rose Cañon, Seal Beach and Norwalk.

Arizona elegans	L	La Costa	32.2	Fields	DOR
Red racer	L	La Costa	34.2	Fields	DOR
Cal King	L	Solana Beach		Fields	DOR
Cal King	L	Las Flores	48.2	Fields	DOR.
Cal King	S	Kit L. Fr S. Onofe	54.3	Fields	Brush DOR

In the evening went to a "Specimen Night" meeting of the Herpetological Society of Calif. Took 13 pairs of specimens. Was not as interesting a meeting as it might have been because of the method of conducting. Did not have an adequate chance to see the other's specimens.

Bogert showed me a small *Trimorphodon* from an unknown source. Also said there was one in the collection of the Lincoln High School.

Hill told me his museum had recently received a *Trimorphodon* (from Temecula) and a *Phyllorhynchus* (from Palm Springs).

Saw Colburns Canon Island Race.

Saw a *Ph. platyrhincus* from Independence. (not a new locality vide Van Benbrugh.)

June

Friday 8,

1928

Drove back today from Los Angeles with Weiss. A cool cloudy day inland as well as on the coast. Must have rained some the night before from Capistrano to La Jolla. Miles 130. In County 59.7. Came home via Whittier & Santa Ana.

1 Gopher L DOR. Capistrano Fields 86.5

1 Arizona L DOR " " 90.7

1 Gopher L DOR Clemente Fields + hillside  
96.3. County line = 100.4, Home = 160.1

Start = 30.

Nothing seen in San Diego County.

1928

Saturday 9,

June

Did not go out today; too much work ahead. Spent part time at the Zo.

arranging specimens and the balance of the time in the basement pickling and putting away. Worked hard to 6<sup>15</sup>  
Pickled 4 snakes

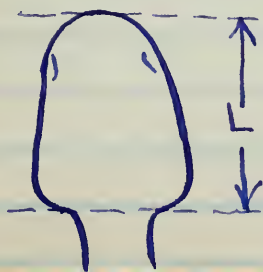
Some measurements of rattlers just after removing from alcohol while still dead soft. This primarily to establish comparative head to body proportions.

No	Species	length <sup>①</sup>	Head Width <sup>②</sup>	Head length <sup>③</sup>
1557 <sup>(?)</sup>	cerastes	554	25	27
784	mittchellii	947	34	38
785	"	796	33	36
786	"	801	33	36
787	tigris	630	18	24
788	Oreogamus	518	20	27
789	confluentus	527	19	25
824	Oreogamus (desert)	463	17	25
825	mittchellii	443	19	25

} Same 16

- ① length over all nose to base of rattles.  
② at widest point.

③



The above (except 1557) have been entered on the individual sheets



June

Sunday 10,

1928

A cool cloudy day. Did not go out but spent entire day pickling, tagging and filing specimens.

Old specimen of *Trimorphodon* in Division of Nature Study, L.A. Public Schools. through courtesy of Chas. Bogert. No data. Badly faded.

Body spots 29 Tail spots 18 Anal divided. Small size.

A *Charina kottae* from Surtz Canyon San Bernardino Co. Harry C. James. May 19-26. 41 scale rows? (very hard to count). The boys of the camp were said to have taken at least 4 others.

For Natural History Society read  
1 *Hypsiglena ochorhynchus* from Balboa Park  
June 10 L. W. Arnold.

1928

Monday 11, June

Had a letter from Ed Johnson of the auto club today in which he gives interesting data on specimen localities.

*C. mitchellii* (784) 1/2 mi S. of Barstow

" (785) 5 mi S. of Cave Springs S.B.Co

Red weavers from 1/2 way bet Llano and Phelan (L.A. Co) and Cozy Dell E. of Daggett, (S.B. Co)

Ride-winders from Hinkley, and Fenner (2) (S.B. Co)

Chucawalla from 1/2 way bet Garlic Springs and Cave Springs S.B. Co

Recd today from Barrett via N.H.S.

1 large *P.c. rutilus* about ready to lay eggs from Nogales, Ariz. and 1 *Crotaphytus* *olearius kuileyi* from Santa Rita Mts. Ariz.



June

Tuesday 12,

1928

1928      Wednesday 13,      June

June

Thursday 14,

1928

1928

Friday 15,

June

Reed today a large Boyle's King  
from W. H. Frantz, employe. Caught  
at Vista June 15<sup>th</sup>

June Saturday 16, 1928

Worked all afternoon and part  
of the evening packing, pickling  
specimens etc.

at night

1928

Sunday 17,

June

Went out to Mt. Woodson near Ramona today. Cloudy and cool in town. Clear and cool beyond El Cajon. Mild breeze.

Started at 10<sup>40</sup>; returned at 5<sup>40</sup>. With family, M.K.s, H.K. and Allie. El Cajon, Lakeside, Messey, Earl School, Poway cut off, Poway, Miramar, Chesterton. Went out via ~~Bdway~~ Univ. Extension. Total miles 70.

Stopped for lunch near Strong's place. Hunted before lunch with Allen for an hour and after lunch for two hours. Rocks not of good consistency. Got 3 Stellys, 1 Uta, 2 X.h. Saw also Orcuttia but not many of any lizards. No snakes. Saw one whiptail on the way down the Poway grade.

1 large Cal King. D.O.R. Miramar Open fields. Only snake seen alive or dead.



June

Monday 18,

1928

Milked snakes this noon. Total  
38 mostly new. Got a fair supply.  
Had the Max stolen in front of  
the Zoo. Had my library catalog.  
Got a Trimorphodon from Suncrest  
today.

1928

Tuesday 19,

June

Got my library catalogue back today, found by Okeice of the Ry Co near Marine Base.

Recd today via Ayres from J.G. Brown Santa Fe Ranch. 1 *Siagonodon humilis* and 1 *Hypsiglena ochrochrychus*.

Went to El Cajon Rotary Club this noon. Start 11<sup>30</sup>; return at 2<sup>15</sup>. Part cloudy in town; clear at El Cajon. 30 miles total. Went out via Broadway Ex and Helix corner. Returned via Univ. Ex.

1 Red Racer D.O.R. large Chollas Hts <sup>low</sup> Brush  
& Grass

1 Bayles King D.O.R. large. East SD.  
Grass hillside

June , Wednesday 20, 1928

1928

Thursday 21,

June

## Longest Day

Recd today from Seash a large Boyle's King taken at Fallbrook and a *Pituophis tonosus* taken in Boulder Creek.

This afternoon went out with Miss Atsatt, Seash and a party of instructors from U.C.L.A. Started at 2 P.M.; returned at 6<sup>30</sup> P.M. Univ. Expt., Bostonia, Suncrest, La Mesa, Imperial Ave. 51 miles x no snakes seen on the road.

Stopped at Studio near Grossmont and got 5 X.h. Next stop at Suncrest. Got 30 ± X.h. Also 1 med. red. rattler. Saw Skellie's and 1 *Eumeces* on a rock. This was about 5 P.M.

This evening put the rattles in a Zoo box with a large Boyle's King. Both indicated clearly a strained attitude; the rattles by almost continuously rattling and the King by a rigidity and a loop up at the end of the cage.

June

Friday 22,

1928

(Continued from next page.)

Ferns on both sides of path. Hunted around the barn. Got an alligator lizard.

After supper walked around the barn, around the meadow and also up the road. Got 1 *Hyla regilla* in the spring. No toads. Heard another *Hyla*.



1928

Saturday 23,

June

This afternoon went to Palomar with Maj. Chapman Grant, Pearl and a young party named Pitmars. Part cloudy in town; clear in the back country. Rather hot bet. El Cajon and Santa Ysabel. Miles 82.6 went via Univ. Hst., El Cajon, Messey, Ramona, Santa Ysabel, Henshaw Dam, East grade, Bailey's. Started at 145; arrived at 5 P.M. Moderate temperature at Palomar. Bailey's = 5650 elev. Practically no hunting done on the way. Stopped a few moments  $\frac{1}{2}$  way up east grade but collected nothing.

1 Cal Racer L. D.O.R. Riverview. Grass-light brush.

1 Cal King snake Crossing the road at Santa Ysabel.

Open fields.

1 Yearling Pacific Rat Crossing the road  $\frac{1}{2}$  way up east grade. Trees. Saw skalleys here.

Also caught an alligator lizard a little further along. Crossing the road.

Arriving at Bailey's at 5<sup>00</sup> we walked about  $\frac{1}{2}$  mile down the road toward the Iron Spring. Found a good sized Pacific Rat. Coiled like a pancake in a depression (about  $\frac{1}{2}$ " deep) in the path. Waiting for prey?

(Continued Friday June 22)



June

Sunday 24,

1928

Started out this AM at 9 o'clock for Doane Valley taking along Milt. Bailey's kid Steer as guide. Went through the upper Doane Valley to edge of lower where road stopped. Returned by main road. Got back at 12. Clear and moderately warm. Total miles 6.0. ~~Small~~ Smashed running board box and damaged both running boards of c of rocks on road side.

In Doane valley the lizard business was excellent. There was much old lumber lying about and under these Utas and Skinks were plentiful. Got 5 of each alive and lost plenty. Also lost one snake of which only the tail was seen. Was under a board. Think it was either a garter or a young western yellow belly. Also lost one garter in the creek which Ditmars thought had a central dorsal stripe but this was by no means certain. Maj. Grant caught 3 *T. o. hammondi* in the creek. One *Hyla* was seen.

Skellies were plentiful on rocks and stumps. Shot 11. Also 5 Utas. Was in pines only a little way.

Started for home at 1<sup>30</sup> went via East grade, Kershaw, Rincon, Pala, Escondido, Murphy Cañon.

1928

Monday 25,

June

(Continued from June 24)

Arrived at 6 P.M. Trouble with sticking valves.

Miles 109.

Hunted for a short time on the shoulder above Lake Henshaw and got a Uta and Gally. Lost 2 Horned Toads here.

1 Gopher Wead D.O.R. Amago. Grass

Also 1 Whiptail D.O.R. here.

1 Boyles King Large D.O.R. Poway grass.

June

Tuesday 26,

1928

Went out to Rotary Club at El Cajon;  
out via University, left; back via Broadway  
apt. 32 miles. Nothing seen.

1928      Wednesday 27,      June

June

Thursday 28,

1928

Showed specimens and library  
to C. H. Richardson.



1928

Friday 29,

June

(Thursday July 5 Continued)

The Hylas were in boulders along the stream bed both in the stream and on the sides. Not in crevices but rather in indentations. Sometimes 3 to a boulder. All in the shade.

The water dogs were very plentiful both in side pools and in the main stream. They were more easily caught in the former. Only 3 or 4 were on land; these were quite close to water. They hide under rocks or in the mud when disturbed.

Got 1 Juvenile rattlesnake at Cuyanaaca on the road at 6<sup>15</sup> P.M.



June      Saturday 30,      1928

Drove out to Pine Valley at 4 P.M.  
via Broadway Extension Arrived 5<sup>40</sup>  
A warm pleasant day. 49 miles.  
Nothing seen.

1928

Sunday 1,

July

At Pine Valley. Worked on  
Library Catalog nearly all day.

July

Monday 2,

1928

This morning went to rock piles  
across the bridge for about an  
hour. Saw Skellies, Uta stans,  
Oreuttis and Whiptail but got  
nothing. 3 miles.

In the cool of the late afternoon  
ran down to Kitchen Creek Bridge.  
Nothing seen. 10 miles.

Worked on statistical data  
much of the day.

1928

Tuesday 3,

July

This morning drove to Pescanso and back. Hunted  $\frac{1}{2}$  hour east of top of new Viejas grade. Got 1 x.h and saw two others; also Orcutti and Skelly. Nothing seen on the road. 18 miles.

In the afternoon drove over to the east side of the valley. Looked along the creek for a short while. Nothing seen. Total miles 6. The old pool is dry this year.

Noted at 4<sup>30</sup> a Skelly and a Uta about the calvin. Indicates that lizards come out late in afternoon. Not uncomfortably hot at mid day.

Worked on statistical data considerably yesterday and today.

July Wednesday 4, 1928

Worked on statistical data in the morning.

At 1<sup>30</sup> P.M. went to pond on Cottonwood below Buckman's. Walked up the creek which is dry except for a few pools; then down the main river.

Many young *Hyla regilla* were seen and a few young *Hyla arenicolor*. Also 1 adult of each. Collected adults and a few young. Saw 2 *Rana aurora draytonii* but did not collect. No toads of any kind were seen (compare with last year).

Collected 1 Uta, 1 Skelly. Others were seen. Saw 2 Skinks and 2 Orcutt's. 1 Snake was under a rotten log. Collected but lost him. Got him again.

Returned at 4<sup>15</sup>. No snakes seen. Total miles 18.

Lizards are certainly scarce at this time of year.

Some polywogs were seen just ready to change. Collected a few. *Hyla arenicolor*, *Uta stans* and skelly have mites.



1928

Thursday 5,

July

Today went to Boulder Creek with Phil, Gutz and Reeves. Started at 10 A.M.; returned at 7 P.M. Total miles 76. Went via Cuyamaca, Cuyamaca - Pine Hills Road, Boulder, Pine Hills, Julian, Cuyamaca and return. A fine clear day not overly warm.

First stopped for a few moments at Cold Spring and got one small garter.

Next stop on west side of Middle Peak at a spring about  $\frac{1}{3}$  way to Pine Hills. Hunted here quite a while but got nothing. Several lizards seen but could not be identified.

Got 1 Skelly (No 935) at junction of Pine Hills - Boulder Creek Road.

Next stop Johnson Creek. Got 4 *Triturus torosus*, 1 *Hyla arenicolor* and 1 medium garter. This point just over the hill - maybe  $\frac{1}{2}$  mile from Boulder Creek. Saw a turtle but lost him.

Next stop Boulder Creek where we walked down maybe  $\frac{1}{2}$  mile. Got 52 *Triturus torosus* and 22 *Hyla arenicolor*. The boys saw a Rana but I did not see to identify. Phil saw a turtle. Miles at this point 32.1. Saw several skellies but could not collect.

(Continued on June 29)



July

Friday 6,

1928

Worked up statistics this morning.

In the afternoon went to Pine Valley Creek Bridge and walked down stream from there. Walked slowly and worked carefully. Went down about  $\frac{1}{2}$  mile +.

Saw four garter snakes of which we caught 2, 1 large, 1 small. lost 1 medium. The first was in weeds in midstream with head out where current was swift and he was acting as cut water.

Got 3 *Hyla arenicolor* of which 2 were deep in crack and were found when piece was broken off.

Got 1 *Rana* ~~got~~ seen.

Saw several small *Hyla regilla* but did not collect any.

Saw one skelly under a dead log.

lizards very scarce although day was not hot.

Quite a few large polywogs were seen in side pools.

1928

Saturday 7,

July

Went to San Diego today;  
back to Pine Valley in the evening.  
Went in 7<sup>30</sup> - 9 A.M. Out 6<sup>15</sup> -  
7<sup>45</sup> P.M. A warm day. Nothing seen  
on the road, 48 miles

July

Sunday 8,

1928

Spent the day on statistical data.  
a hot day. Have a bad cold.

1928

Monday 9,

July

Have a bad cold today; not feeling good. Did considerable statistical work.

### July 11<sup>th</sup> Continued

They take refuge under logs, in logs and in ground holes but particularly under logs. Most of the specimens we got were scared out but a few were seen both on stones and on logs. Their uniformity of size and marking makes their identification certain.

Also at this point (where we turned over many logs) got one tailless *Ensatina croceata* in the center of a rotting log amongst all the punk.

Next went to the lake where Phil got a medium garter on the shore. I turned over many logs but it was too late for lizards.



July

Tuesday 10,

1928

Went to Laguna mountain with Phil, Gutz, and Reeves. Start at 10 AM; back at 4 P.M. 34 miles. Clear day. Warm at Pine Valley cooler on the mountain.

Nothing seen on the road except a couple of Uta's and Skellys about  $\frac{1}{2}$  way up.

Only hunted one place namely at the Laguna at the end of the road. Here got 2 small *Hyla* regilla (spoiled), 4 Skellies\*, and 2 *P. o. hammondi*. Saw several additional skellies, 2 Skinks (which were lost) and at least 8 additional garters which I were lost. Garters were in fact quite common but hard to catch whether in the grass around the lake or in a pile of rocks close by the side of the lake. I lifted many small rocks around this rock pile and nearly every one had 2 or 3 shed skins underneath. Never saw so many shed skins.

Every skelly has red lice. Small garter contained *Hyla* tadpole - frog (tail + legs) and a black worm? \* *S. g. vandenburgianus*



1928 Wednesday 11, July

This morning at 9<sup>30</sup> went to Buckmans, Campo, White Eagle (New Town) and back to Pine Valley. Total distance 53. Returned at 12<sup>30</sup>. A rather hot day.

Stopped at pond on the <sup>(8.9 mi S. of Pine Valley)</sup> Cottonwood for a few moments. Noted 2 *Ranae*, 1 *Hyla regilla*. Collected 1 *Uta*, 1 *Skelly* and 1 *Whiptail*. The *Whip* and the *Uta* have lice. The *skelly* has worms. (saved some) Got a *whiptail* at Clover flat. Saw a young *scuttie* 4 mi W. of White Eagle. No snakes seen alive or dead. *Whiptails* seem to be the only lizards abroad and active on a hot day. While they do not deliberately stay in the sun they don't seem to avoid it particularly.

This afternoon at 2<sup>30</sup> with Seale, Nation, Phil and Leever went to Laguna. Returned at 6<sup>30</sup>. 35 miles. First stop about half way up. Saw one *Uta*. Next stop on south end of mountain. Got one s.g. *vandenburghianus*. Next stop about halfway bet ranges station and lake. Got a juvenile gopher, a skink (another was seen) and seven s.g. *vandenburghianus*. These are found under boards and are caught with some difficulty. (Continued on) July 9

July

Thursday 12,

1928

This afternoon went out with Philip. Started at 2<sup>30</sup>; returned at 6<sup>30</sup>, 63 miles. Researso, Cuyamaca, Julian, Pine Hills, Cuyamaca, Pine Valley.

Hot in Pine Valley; somewhat cooler in the mountains.

Stopped a few minutes at Cold Spring but found nothing. Next stop 5 miles north of Cuyamaca on the Pine Hills - Cuyamaca road. Got me sick. In the last 2 miles of this road at about 5<sup>20</sup> P.M. a good many skellies were seen and 4 were collected.

One juvenile *C. oreganus* on the road 1 mi n. of Cold Spring. Time 5<sup>45</sup>.

On the Pine ~~hill~~ Valley grade about 1/2 way down there was a small snake in the road which I am quite sure was *L. multicincta*. Caught a glimpse of the black and red. Stopped quickly but when we went back no trace could be found. So it cannot be counted. This was about 6<sup>10</sup> P.M.

1928

Friday 13.

July

Went to Laguna this afternoon with Gartz, Revers and Phil. Started at 2 P.M.; returned at 5<sup>30</sup>. 29 miles. A hot day in Pine Valley; cooler on the mountain. Hunted assiduously at 2 points on the mountain, turning over logs, etc. Got 1 *Sceloporus occidentalis biserialis* F, 3 skinks (lost several) and 7 male and 11 female *Sceloporus graciosus vandenburghianus* which is what we went after. They are quite common but not easy to catch. They are just seen on logs, stumps or rocks. When frightened they take refuge under logs usually but also under stones, in ground holes or even in leaves or pine needles (when run down). Two were noted to run up trees. They are very quick and active and difficult to catch unless they become entangled in the grass.

Saw a few miscellaneous lizards on the way down.

Went to Ryan's store but saw nothing 5<sup>30</sup> - 6<sup>30</sup> 15 miles.

No snakes seen today, dead or alive.



July

Saturday 14,

1928

Worked over yesterday's specimens.  
Noted a stink with lice under  
each arm and behind each leg.  
Also between toes and under a few  
scales of abdomen.

Many specimens of *S. g. vander-*  
*bargianus* have mites.

Moony all afternoon.

Went out this evening, 7<sup>30</sup> to 8<sup>30</sup>  
to the cove across the valley where  
last year *Bufo boreas halophilus*  
and particularly *B. c. californicus*  
were to be had. Nothing to  
be found this year. Heard one  
*H. arenicolor* calling and  
caught him.

1928

Sunday 15,

July

Came in from Pine Valley today  
4<sup>30</sup> - 6 P.M. A hot day. 46 miles.  
Broadway extension. Nothing  
seen.



July      Monday 16,      1928

Milked 15 snakes at noon.

Secured a number of specimens at the zoo and from C.B. Perkins.

1928

Tuesday 17,

July

Worked hard tonight on specimens.

July Wednesday 18, 1928

Recd today from Mrs. John  
Burnham, Pt Loma a juvenile  
gopher snake (dead) for identification  
Also from Los Kobles a large female  
Boyle's King Snake from Lemon Grove.  
Worked hard tonight on preserving  
specimens and on identifications.

Record of *Masticophis flagellum*  
*fernatus* and *Coleus constrictor*  
mormon. Baldern Hills (near  
Culver City) from Chas Bogert

1928 Thursday 19, July

Went to Pine Valley this P.M.

A moderate summer day - not hot. Went and returned via University Extension. Went out at 2-3<sup>30</sup>, returned at 7-8<sup>30</sup>. Dark after Terrinitos so count only 56 miles out of 96.

One *Rhinocheilus lecontei* D.O.R. half way up new Vieja's grade. L.

July

Friday 20,

1928

Put up considerable material today.  
Got some Uta's from Seash. caught at  
the Monument

Reed



1928

Saturday 21,

July

Went out to Pine Valley this afternoon by way of Broadway Ext. and Old Vegas Grade. Started at 2 P.M.; arrived at 3<sup>30</sup>. A moderately cool day. Nothing seen. 48 miles.

In the late afternoon went with Philip to Cuyamaca - up side of North Peak. A few lizards were seen. 42 miles.

In the evening found one adult *Bufo cognatus californicus* in the path near the cottage at Pine Valley. Time 8<sup>15</sup>. Was about 8 ft from a large trail of ants. A dry path and bare.

This AM. recd various material from C.B. Perkins who leaves for Utah July 23<sup>d</sup>

1 *Phrynosoma* ~~blo~~ m'callii from Holtville  
 (Cal King Dulzura  
 1 Boyles King, Mission Valley (smaller)  
 1 do San Yedro (larger)

July

Sunday 22,

1928

This morning, a moderately cool day for this time of year, went to the top of Mountain Spring's grade. Started at 10<sup>10</sup>; returned at 1<sup>0</sup>. With Philip. 75 miles.

One *C. oreganus* large DOR at La Porta. Brush on both sides. Only snake seen alive or dead. Rattles were removed showing someone probably got out to kill.

Hunted only at the point usual place about 1/2 mi beyond Tacumbla. Saw a few lizards only *U. stansburiana* and *S. orcutti* could be identified. Got 1 young *S. orcutti*. Not too hot for lizards, but they don't seem to come out at midday at this time of year.

At top of Mt. Spring's grade (Boulder Park) shot a large male Cally on a rock. Was raised up on legs in usual way. Rather a rocky place for a Cally.

Drove in this evening at 6<sup>30</sup>. 20 miles in daylight. Nothing seen.

1928

Monday 23,

July

(Aug. 6<sup>th</sup> Cont) I gave many of my specimens including the *Insaturia* to Taylor. He gave me some of his frogs.

Started back at 2<sup>15</sup>. Was hot from Wamers to Ramona. At Henshaw Dam picked up a large garter crossing the road. Grass on both sides and mud from a spring. This was the only snake seen on the road today.

Stopped only at one point about one third down Mussey Grade. Hunted hard here for *Xantusia* for 3/4 hour. 2 were seen but none caught. Got a good *orcutti*.

Reached home at 7<sup>15</sup>. 100 miles today.

July

Tuesday 24,

1928

Worked over library and specimens with C. E. Burt most of afternoon and evening. He showed me a red racer he had picked up DOR at Jacumba.

Continued from July 23<sup>th</sup>

First stopped at Taniel and hunted in brush, cactus & rocks. Got 2 v. h. b. kept stop *Dulzura* peruv. 1 x h. seen. Very scarce even under good flakes. 1 *Uta* shot to pieces.

kept stop Cottonwood but got nothing.

Stopped for a few moments at several snake tracks.

In the afternoon and evening Burt worked over specimens and library.



1928 Wednesday 25, July

This morning took a trip with CE Burt and Mrs. Burt. Started at 8<sup>30</sup> AM; returned at 3 P.M. 75 miles. Moderately cool in the city; moderately warm in the back country. Bdway Ext.; Lemon Grove, Tanacha, Jamul, Dulzura, Cottonwood, Barrett, Lyons Valley, Jamul Junction and return over same route.

Following snakes seen.

- 1 Tw. Cal. King (Spots) DOR Chollas Hts (Bdway ext.) Moderate brush 7.5
- 1 Tw. Cal King (Stripe) DOR Chollas Hts (Bdway ext.) Grass 9.6
- 1 Patch Nose Med. Indian Spring (Jamul) Moderate Brush DOR 19.6
- 1 Patch Nose Med. Indian Spring (Jamul) Moderate Brush Rocks DOR 20.4
- 1 Red Rattlesnake Caught off road by Burt Dulzura Summit
- 1 *Lichanura roseofusca* S. DOR Dulzura Grade 33.5 Brush Rocks.

Lizards 1 Kelly at Chollas Hts; ~ *Verticateris*, Jamul  
 1 Uta at Cottonwood, ~ Uta at Lyons Valley  
 Burt identified a *C. wislizeni wislizeni* at Dulzura Summit!

(Continued on Page Tuesday 26<sup>th</sup>)



July

Thursday 26,

1928

Started for San Francisco  
today leaving Bert working in  
the laboratory.

1928

Friday 27,

July

This afternoon saw Kevin  
for a while at CAS

July

Saturday 28,

1928

Worked all day at CAS on  
rattlers. Made many notes.

1928

Sunday 29,

July

worked all day at CAS on  
rattlers.

July

Monday 30,

1928

Returned to San Diego at noon today. Noted that my Boyles King had layed me eggs at least during my absence. Maybe more for the garter may have eaten some.

This evening showed my library and specimens to Dr. E. H. Taylor of the University of Kansas.

He caught an exsue at Pacific beach and likewise saw a dead *Oreganus* there.



1928

Tuesday 31,

July

Several days ago Plain told me that a large Boyle's King had eaten a smaller in one of the white boxes. Also one had laid some eggs in one of the large cages and some other of the same species had eaten them.

Today the Boyle's King in the basement laid 3 more eggs. Put 4 in damp sawdust to try to hatch. She probably laid more but the garter must have eaten them. Saw she was about to lay one but in the evening there was no egg there.

August Wednesday 1, 1928

Went to Pine Valley this afternoon at 4; arriving at 6. A moderately cool day. Via El Cajon Ave and old Viejas grade. Returned same route 7<sup>30</sup> to 9<sup>30</sup>. Nothing seen alive or dead. Count 5 miles. (one way)

(Aug 5 continued from Aug 2) They are more plentiful than in Laguna and larger (unless all those taken in Laguna were juveniles) They take refuge under boards, in cracks in logs and in cracks in rocks. They seem quicker than S.o.b. which are present in the same locality. Many tiny Uta were seen.

1928 Thursday 2, August

(August 5 Continued). and put in over four hours in hard hunting. Got plenty more Rana including some very small ones. a medium *C. oreganus*, an *Escutaria* and good series of *Runeles*, *Uta stans*, *Skellies* and *graciosa*.

The rattler was on a shelf in heavy grass on the creek bluff. He rattled as we passed below. He was found to have opaque eye coverings (just changing). The *Escutaria* was found in a rotting log.

Returned to the car, had supper and then walked to Bailey's where we arrived at 7<sup>45</sup>. Total miles to day 16. No snakes on the road.

*Rana boylei mucrona* is less wary than *R. a. d.* and far more easy to catch. It is usually on the banks although occasionally found in the water. Got some very small ones and saw a couple of tadpoles that may be this species. The pools are not deep and the frogs could not escape as does *R. a. d.* Occasionally they took refuge in the water but many times tried to escape on land by getting under overhangs, roots etc.

*Graciosa* was found especially on logs, although, also on rocks and in bushes.



August Friday 3,

1928

Talked to Taylor concerning his desert trip Tuesday to Thursday. He got 4 *C. cerastes* on the desert near Plaster City, Imperial County. He hunted until nearly midnight. 2 were coiled up; 2 were crawling around. Also he got a small boa D.O.R. at Boulder Park, San Diego County. Got 3 *Arizonas* near Plaster City at night. 1 *Mitchelli* medium at Boulder Park.

Got *Ranas* at Kitchen creek and a garter at Buckman. On the previous trip he got several garters at Kitchen creek. Count only the first one above mentioned.

Continued Jan Aug 4<sup>th</sup> —————

The latters were both in the stream and on sand; probably more in the river. Got at least 3 fine adults. These were taken about half protruding from pockets in the sand of the river bed probably just emerging. A couple of *Utas* were also taken on the sand.

No snakes on the road today, alive or dead.

1928 Saturday 4, August

Started for Kala Camp with Dr. E. H. Taylor, Wm. Hanceford, Pearl, Weiss and 3 kids at 2 P.M. Went via Esccondido, Valley Center and Cole grade. Arrived at 6 P.M. Distance (including evening drive) 76 miles. A cool day for summer.

First stopped at Valley Center and hunted here quite a while. Got *Uta stans*, skellies, *Hyla regilla*, *Rana a.d.* and *Bufo b.h.* Saw one garter snake in the creek but lost him. Looks like a good hunting ground along the creek. The *Bufo* were in an old well. The rocks here are poor for *Xantusias*.

Next stopped at the San Luis Rey River crossing at the foot of Cole grade. Collected *Bufo cognatus calif.*, both *hylas*, *Rana a.d.* *Uta stans* and skellies. The *Bufo* seemed to be of 2 ventages, this year and last. Most of them were found hopping along at the foot of a sand bank although a few were picked up elsewhere. The *hylas* seemed half grown. A few tadpoles were seen.

After supper went back to the same place and collected hard with flashlights and lanterns from about 7<sup>30</sup> to 10<sup>30</sup>. Got *hylas*, young *ranas* (the smallest I have ever taken) and plenty *Bufo cognatus californicus* (Cont to Aug 3d)



August

Sunday 5,

1928

Started <sup>from</sup> the camp at 6<sup>30</sup> for Doane Valley going direct by Hedges Canyon grade. Moderately cool with high fog. Stopped briefly ~~or~~ 3 times on the grade but collected nothing. On the way up saw Uta stans, skellies and a whip.

First stop at Silver Crest which is at the top of the mountain toward the west end. Had fire collecting here amongst the rocks getting many skellies, Uta stans, gracilis and 3 whiptails.

Stopped at ~~or~~ 3 more points on the way to Doane Valley. and got more of the same. Taylor saw one snake in the grass which was lost before it could be identified.

Just at the entrance to Doane Valley broke the bottom of the gas tank and lost all the gas. Took off the tank (a long hard job) and sent it back to town with Weiss, Seash and the kids. They started just after lunch.

Taylor and Linceford hunted while we were ~~at lunch and~~ taking off the gas tank and got the usual lizards (no whips) and a fine series of Rana boylei muscosa.

After lunch we went down to the foot of the valley and back (Continued to Aug. 6)

1928

Monday 6

August

This morning at 8<sup>30</sup> we started back from Bailey's to Doane Valley.

Taylor had previously gone out at 5 AM and got 2 *Eusatinas* under bark, a large and a small. I went out around the barn from 6<sup>30</sup> to 7<sup>30</sup> but saw nothing.

Along the way between Bailey's and Doane we got a good collection of lizards, *Uta stans*, *Skelly*, *graciosa* and skinks. Also I saw one large banded racer in a bush but lost him. Further on Hinceford we found a fresh track in the road and then Hinceford spied a large banded racer in the brush. He was coiled about 3 ft above the ground and ten feet away from the road. shot him.

Pavage had arrived and fixed the car by 10<sup>30</sup>. We walked down the creek and got more lizards and a good series of R.b.m. I saw a Western Yellow Belly but lost him. We caught one large garter.

Had lunch by the old shack and started back at 2<sup>15</sup> having hunted continuously from 8<sup>30</sup> to 1<sup>15</sup>. The *graciosa* were not as plentiful as in the late afternoon.

(Continued to July 23d)

August Tuesday 7, 1928

Saw Taylor to say good bye this afternoon. He collected on Grossmont today and got about 25 *Xantusia henshawi* and a *Trimorphodon*.\* The latter was under a flake. He will lend it to me. Also he will send me a *Bufo punctatus*, *S. jarrovi* and other items.

He also told me he had taken B.c.c. at Kitchen (Cottonwood Creek) and found a B.b.h. amongst the toads taken at Cole Grade Crossing Saturday night.

\* Contained a *Xantusia henshawi* October 22 1928. Examined the above specimen loaned to me by Taylor &.

Scale Rows 23 Ventrals 240 anal entire  
Caudals 66 complete F. Supras 8-9  
Infras 12-12 Preoc 3-3 Postoc. 3-3  
Nasals 3-3 (2+1) Lysals 3+4, 3+3  
Spots 40 + 15

Colors normal. Blotches even  
Spots not very clear.



1928      Wednesday 8,    August

Milked Rattlers this noon.

August Thursday 9, 1928



1928

Friday 10,

August

Pickled snakes tonight.  
Reed specimens from Bogert and Royce.

August Saturday 11, 1928

Started (and completed) alphabetical map file. Checked book catalogs and eliminated duplicates while listening to Hoover's acceptance speech.

Tonight started new set of loose leaf books, expanding 3 to 9.

1928

Sunday 12,

August

Spent the whole day on the collection:  
mostly varnishing labels.

V. S. Grant IV called tonight.

August

Monday 13,

1928

1928 Tuesday 14, August

Went out via Market Extension and  
returned via Broadway. 16 miles.  
1 Red Race large DOR at  
Chollas Mts on Broadway Ext. A  
moderate warm summer day.



August Wednesday 15, 1928

1928 Thursday 16, August

August

Friday 17,

1928

1928      Saturday 18, August

Worked all afternoon and evening on  
specimens and annual list.

August Sunday 19, 1928

Went to Coronado Islands today with Weiss, Grant, Hertlein, Searl, Phil and Ranger's troop of Boy Scouts.

landed only on South Island. landed at  $11^{\circ}30'$ , left at  $2^{\circ}30'$ . A clear cool day; some fog in the distance.

Hunted well toward the north end of the ridge and south as far as the low place. Got 2 *Uta stansburiana hesperis*, 2 Skinks, 2 *Gerrhonotus scircicauda* wakiki and 4 Whiptails. All but the skinks had orange mites. The whips seem to feed on grasshoppers judging by stomach contents of one.

Got a number of whips and 1 large skink. Saw 2 rattlesnake skins under rocks.

The whips and alligators are in the low brush on the ridge. The skinks are under rocks. The utas are low down. The whips seem to be the most plentiful and are of good size. The last skink was large. The only 2 alligators taken were half size on a mainland basis.



1928      Monday 20,      August

August Tuesday 21, 1928

1928 Wednesday 22, August

August Thursday 23, 1928

1928 . Friday 24, August



August Saturday 25, 1928

1928

Sunday 26,

August

August      Monday 27,      1928

Went to Los Angeles today via Long Beach with Mr. & Mrs. H. W. Eales. A clear cool day. Nothing seen. 62 miles in country.

1928 Tuesday 28, August

Returned from Los Angeles starting at 10<sup>30</sup>; Arrived at 3 P.M. A clear cool day.

1 Medium *A. elegans occidentalis*  
D.O.R. at Coast Royal, Orange Co.

1 *M. lateralis* large D.O.R. at  
Hoy Canyon.  
62 miles inside county

August Wednesday 29, 1928



1928 Thursday 30, August

August Friday 31, 1928

1928    Saturday 1,    September

September      Sunday 2,      1928

1928    Monday 3,    September



September Tuesday 4, 1928

milked snakes today.

1928 Wednesday 5, September

September Thursday 6, 1928

1928      Friday 7,      September

(Continued from Sept 10)

His collection is now small only  
4 organisms a mitchellii and a sidewinder.  
Returned at 3 P.M. 22 miles in S.D. Co  
in daylight. Nothing seen. Ollie E. came  
down with us.

September Saturday 8, 1928

Drove to Los Angeles today with the family starting at 11 AM; arrived at 3 P.M. Went via Long Beach. Fairly cool along the coast; hot inland. 62 miles inside county. 1 Cal King D.O.R. at Stewart Lake. This was the only snake seen.

Met Hill at the L.A. Museum and worked from 4 to 5 mostly identifying specimens for him. Saw some interesting material and borrowed from him 2 scutellates for further study. He has a good series of lepidids and triseriatus that should be studied later.



1928 Sunday 9, September

Spent 3<sup>30</sup> - 5<sup>30</sup> with Hill at the L.A. Museum.

Checked over 2 *Arizona atrox* and about 6 *California oreganus*.

Found definite verifications of *C. cerastes* and *S. humilis* in Los Angeles County.\*

Noted the following specimens:

*Tremorhodon vanderburghi* No 133

J. Hornung, Temecula, 4-6-28. Usual dark brown; anal undivided, dorsal spots 37; tail spots 16, incomplete.

*Phyllorhynchus decauratus* No 491

J. Hornung, Palm Springs 4-16-28.

There is much in this collection that would be interesting to check over although it has been rather poorly kept and is now badly arranged. There is considerable unidentified material and also much without labels.

\* L.A. Museum # 366 Chatsworth Park 3/26/46

L.A. Museum # 239 Antelope Valley  
both checked OK.

September Monday 10, 1928

This morning went over to see Weinburg at 120 N. Gates St., L.A.

He had an interesting lot of stuff but the locality records are not kept so that it loses value. However he gave me a young *scutulatus* and a large *phyllorhynchus* both definitely from Inyo Kern (Kern Co) and loaned me several sidewinders for milking from the same place.

I saw a very dark red racer from somewhere in Calif and likewise a King snake Lg b with light rings as narrow as any eastern chain snake.

He had several *Oreganus* (one unusually black) a large *scutulatus* and a peculiar *Oreganus* about half way between the great basin and the California Type. But as he didn't know where any of these were from they are useless as specimens.

learned that Australian blue tailed skinks will eat snails, chudawallas will eat watermelons, sidewinders, lizards, *Oreganus* dead gophers when they won't touch rats.

Went out to see Rowe at San Fernando. He gave me a very interesting account of having been bitten seriously by an *Oreganus* 5 weeks ago.  
(Continued on Sept 7)

1928 Tuesday 11, September

Reed V.C. specimens today (27)

Noted at the Zoo a Boa from  
Tujunga Cañon, L.A. Co. which was  
orange where they are usually  
brown.



September Wednesday 12, 1928

Milked snakes this noon.

Started from S.D. with Weiss at 3<sup>30</sup>

A medium cool day. Went to Los Angeles via Rose Canyon and Long Beach. Miles in County 58. One dead snake on the road at San Onofre. Travelling too fast to stop (next evening it was gone).

Visited Tex Schulbach's snake show at Long Beach. He has a good collection of atrox mostly from Arizona. He is a little indefinite as to localities but knows that he has had them from Bakersfield Mesa and Coleridge Ariz. Noted that the supraocular dashes were missing on most yet one Texas specimen has strong dashes. He has 2 good specimens of scutulatus from Globe Ariz.

He has a fine albino gopher from Torrance, Calif. about 3 ft long. Says there was another smaller one which got away. The parietals are, as usual in albinos, distorted. The eyes are pink. The normal yellow is light yellow. The black brown or red is white.

1928 Thursday 13, September

Spent an hour in the L.A. museum this afternoon. Checked up *Phyllorhynchus* and a couple of lizards.

Returned the siderurides to Weiskopf this A.M. Gave him a turtle and a red rattlesnake. Saw Schuchach again this evening. He had just unpacked one shipment from Randolph, Ariz and another from Florence, Ariz.

Saw a large *scutellatus* from Randolph (2+3) Usual contrasting tail. The largest *scutellatus* I have ever seen. Color green brown. Truncated diamonds. There were in this shipment 6 *atrox* from M to L. and 2 *scutellatus* 1 L 1 S. He gave me the latter. No doubt as to locality; was on the box.

Altogether he had 5 *scutellatus* all were 2 scales but supraoculars.

The other shipment from Florence, Ariz contained 1 *scutellatus* is about 12 *atrox*. Absolutely no difficulty in distinguishing nothing seen on the way home in the dark. Arrived at 10 P.M.



September Friday 14, 1928

1928 Saturday 15, September

Worked all afternoon checking U.C.  
*Crotalus* specimens.

September Sunday 16, 1928

Worked all day checking U. C. crotalus specimens and pickling 11 snakes.

The King snake eggs I put up some weeks ago were examined today and found shriveled and dead.

Put a small scutellatus in the warm (not hot) sun in a glass jar. Got very violent. Rattled continuously. Breathed with great rapidity. Struck at everything.

I note that whenever a snake is skinned prematurely some of the scales even in normally dark areas lack pigment and are nearly white. This may account for some light colored specimens in collections. Also for the queer light spots.

1928 Monday 17, September

September Tuesday 18, 1928

1 Small Pituophis from Nat. Hist  
Museum. Descanso.



1928 Wednesday 19, September

September Thursday 20, 1928

1928    Friday 21,    September

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September Saturday 22, 1928

1928 Sunday 23, September



September      Monday 24, 1928

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1928 Tuesday 25, September

Went to Oceanside today with Peckham and Stearns. Started at 9<sup>15</sup>; returned at 3 P.M. Went via Rose Canyon; returned via Hog Cañon. Dribbled back to Encinitas. Total miles 107

1 Gopher Tow DOR Encinitas  
1 Arizona barge DOR Solana Beach.

September Wednesday 26, 1928

1928 Thursday 27, September

September      Friday 28,      1928



1928 Saturday 29, September

September Sunday 30, 1928

1928

Monday 1,

October

October Tuesday 2, 1928

Milked a few rattlers today

1928    Wednesday 3,    October

Recd a small box from Julius  
Wery, caught on San Miguel.



October Thursday 4, 1928

1928

Friday 5,

October

Went to Agua Caliente. 15 miles  
in the country. Nothing seen.

Recd 60 specimens from U.S. N.M.  
today.

October Saturday 6, 1928

Went to Yuma today with L. B. Jones, Alfred Fisher and Abbott. Started at 2<sup>30</sup> P.M. Arrived at 10<sup>10</sup> P.M. A moderately warm day. About 90 in the Valley.

No stops were made in the county and no snakes were seen alive or dead, went out via Broadway extension and old Vegas grade. Miles in county 90. Total miles 190.

Stopped for 15 minutes at Coyote Wells at 5<sup>10</sup>. Got one Utter stans. Jones got a Red Racer by the tail but lost him when he twisted the end off. Never saw this done before. I saw him once. Was the yellow brown phase.

Got to El Centro at 6<sup>30</sup>. Dined at Barbara Worth.

Got a small gopher D.O.R. 7 mi e. of El Centro (Call it Holtville). Good enough to save as a specimen.

Got a large sidewinder crossing the road at 6 mi beyond Holtville. We must have run over him as he was dead next morning.

One small sidewinder D.O.R. 8 mi beyond Holtville. Hunted several places in the desert with flash lights but had no luck.

1928 Sunday 7, October

Started back this A.M. at about 9<sup>30</sup>.

Was warmer today. At El Centro they said it was warmest day in two weeks.

1 Small Patch nose D.O.R at 7 mi. w. of Yuma.

Saved him.

Hunted for about 2 hours in the sand hills at a point 17 mi. w. of Yuma. Good luck here.

Got 24 *Uma notata*, 3 *Uta* *graciosa* and 2 *Dips*. Also 1 small sidewinder.

The *Umas* are quite plentiful but difficult to shoot. They don't stop on the edge of a brush like *Callis*, but run into it or behind it and then hide in the sand or go down a hole. They are very fast. The *Utas* are on bushes as usual. The sidewinder was in the shade of a bush.

A very light colored Patch nose D.O.R at 22 mi. w. of Yuma.

Hunted for a short time 31 mi. w. of Yuma.

Got 1 *Uta* *graciosa* (1570) and a leopard lizard.

hunched at El Centro until 2<sup>30</sup>

Hunted 15 mi. west of El Centro bet. Divisadero and Plaster City. Got 4 *Callis*.

Saw *Uta* *stans* and Whiptail.

First from Imp. Co. Red Rattle D.O.R. 5.5 mi. east of Mt. Spruce Col. line.

Home at 7<sup>30</sup>. Miles today 188. Count 37 miles in country while light. Nothing seen.

October

Monday 8,

1928

Fleming told me today of  
a black rattler (*Oreomyza*) seen 3 mi  
due east of Hot Springs Mt. No question  
as to identification



1928 Tuesday 9, October



October Wednesday 10, 1928

1928 Thursday 11, October

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October

Friday 12,

1928

1928      Saturday 13,      October

October Sunday 14, 1928

Worked all day today and  
most of yesterday. Cleared up  
most miscellaneous specimens.  
except National Museum Specimens



1928      Monday 15,      October

October Tuesday 16, 1928

1928      Wednesday 17, October

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October Thursday 18, 1928

1928

Friday 19,

October

October

Saturday 20, 1928



1928

Sunday 21,

October

October      Monday 22,      1928

Went to La Jolla this morning.  
30 miles. Nothing seen.

1928 Tuesday 23, October

October Wednesday 24, 1928

Drove to L.A. today via Rose Cañon with Jacobsen. A clear warm day. Nothing seen. 60 miles in country. Also went to La Jolla in the morning. 30 miles.

Visited Tex Schulbach's place at Long Beach in the evening for about 40 minutes.

He had several items of interest. A King snake of the gularis group said to have been taken near Flagstaff, Ariz. looked like an Eastern King.

Also a Tiger Rattler said to have been taken at or near "Petrified Forest" Calif., evidently some place out on the Mojave. Pinned lighter than Arizona specimens and possibly with a larger head.

He gave me a young Oreganus from Florence, Ariz.

Checked his scutulatus (9) and atrox (3-r) and made notes thereon for my study.

1928 Thursday 25, October

Returned from L.A. today with Jacobsen and D'Oyly. in the afternoon. 64 miles in the country. Nothing seen.

October

Friday 26,

1928



1928      Saturday 27,      October

October Sunday 28, 1928

1928      Monday 29,      October

October Tuesday 30, 1928

1928      Wednesday 31, October

November Thursday 1, 1928



1928

Friday 2, November

Came in this morning from  
Munnewaawa Ranch 33 miles. Nothing  
seen.

November Saturday 3, 1928

Drove to Los Angeles with family. Start 646. a clear day. 59 miles in county. nothing seen.

Returned after dark.

1928      Sunday 4,    November

November Monday 5, 1928

1928

Tuesday 6, November

November Wednesday 7, 1928



1928 Thursday 8, November

November      Friday 9,      1928

1928 Saturday 10, November

November Sunday 11, 1928

1928 Monday 12, November

November Tuesday 13, 1928



1928 Wednesday 14, November

Rained quite hard this A.M. The first real rain of the season. Went out with Phil in the evening along El Ceyin Boulevard. Rain had ceased. Quite cold. Caught 7 B. b. h. all large. Both males and females. *Hydra regilla* was heard

November Thursday 15, 1928

1928      Friday 16,    November

November Saturday 17, 1928

1928 Sunday 18, November

November Monday 19, 1928



1928 Tuesday 20, November

Started for S.F. this A.M. 57 miles  
in the county. A fine fall day.  
Nothing seen. Got as far as  
Modesto 467 miles.

November Wednesday 21, 1928

Went on to S.F. arriving at  
noon.

Worked at the academy all  
afternoon.

1928 Thursday 22, November

Went to the Academy for a short  
time this P.M.

November Friday 23, 1928

worked at the Academy for  
a short time this P.M. and in  
the evening until nearly midnight

1928 Saturday 24, November

Worked at U.C. for about 3 hrs  
this AM.

November Sunday 25, 1928

Worked at U.C. all day today.



1928 Monday 26, November

Started for S.D. this A.M.; got as far as Santa Barbara.

One live snake seen on the road near Morgan Hill. Probably a garter. Did not stop.

November Tuesday 27, 1928

Reached S.D. at 5 P.M. today. 57  
miles in the country. Nothing seen.  
a cool cloudy afternoon  
Via Rose Canyon. Reached S.D.  
at 5 P.M.

1928 Wednesday 28, November

November Thursday 29, 1928

1928      Friday 30,    November

December Saturday 1, 1928



1928      Sunday 2,      December

December      Monday 3,    1928

1928 Tuesday 4, December

This morning at 7<sup>30</sup> started for Riverside arriving at 10<sup>40</sup>. Returned 1<sup>30</sup> to 4<sup>30</sup>. Miles in country 140.

It had rained for two nights and one day before although today was clear. There must have been many toads out last night as many had been run over the night before notwithstanding presumably light traffic. Could have got many locality records if I had stopped on the way up but business prevented. On the way back few bodies were left and these were so dry as to make identification difficult.

Checked one spade foot at County line. Rainbow.

One Juvenile Gopher DOR at  
" , Rosedale. Fresh.

December Wednesday 5, 1928

1928 Thursday 6, December

December      Friday 7,      1928



1928      Saturday 8,      December

December Sunday 9, 1928

1928      Monday 10,    December

December Tuesday 11, 1928

1928 Wednesday 12, December

December Thursday 13, 1928



1928 . Friday 14. December

December Saturday 15, 1928

1928      Sunday 16,    December

December Monday 17, 1928

1928 Tuesday 18, December

December Wednesday 19, 1928

Drove to Los Angeles today to  
buy a car. Drove back in the dark.  
a clear day. Nothing seen.  
59 miles in the county.



1928 Thursday 20, December

December      Friday 21,      1928

1928 Saturday 22, December

Shortest Day

December Sunday 23, 1928

1928      Monday 24,    December

December Tuesday 25, 1928



1928 Wednesday 26, December

December Thursday 27, 1928

1928      Friday 28,      December

December Saturday 29, 1928

1928      Sunday 30,    December

December Monday 31, 1928



# Memoranda

# Memoranda

# Memoranda

# Memoranda

# Memoranda

JANUARY—CASH

REC'D

PAID



FEBRUARY—CASH

REC'D

PAID

MARCH--CASH

REC'D

PAID

APRIL—CASH

REC'D

PAID

MAY--CASH

REC'D

PAID

JUNE—CASH

REC'D

PAID

JULY—CASH

REC'D

PAID



AUGUST—CASH

REC'D

PAID

SEPTEMBER—CASH

REC'D

PAID

OCTOBER—CASH

REC'D

PAID

# NOVEMBER—CASH

REC'D

PAID

Mulford a/c  
Just 50<sup>00</sup>—

50 —

1928  
Oct 1 Evans 3 Tigers 12 —

Oct 27 Barnard 1 Oreganus 2 —

April 3 Pistol & Shells etc  
for Walker 10 —

June 22 Ed Lloyd 1 Scutellatus 2 —

" F. Van Cleveland 1 <sup>Sedemides</sup> Mitchellii 250

28 50

21 50

Oct 9 24 Recd from Mulford

50 —

71 50

Sept 20 Paid bank for 24  
snakes

63 62

Bal due Mulford  
as of Oct 12<sup>th</sup> 29

788

DECEMBER—CASH

REC'D

PAID

## SUMMARY--CASH

REC'D

PAID

Cash on hand Jan. 1st

January

February

March

April

May

June

July

August

September

October

November

December

Total

Balance to new Acc't





## POSTAGE

CLASSIFICATION	DOMESTIC	FOREIGN
Letters, First Class Matter.....	2c. per oz. <sup>oo</sup>	o
Post Cards (Private) .....	2c. each	o
Postal Cards (Government).....	1c. each	o
Newspapers, Magazines, Periodicals.....	2c. for each 2 ozs.*	o
Circulars and miscellaneous printed matter, also mdse. ....	1½c. for each 2 ozs.†	o
Merchandise, catalogs, etc., over 8 ozs....	Zone rates apply	o

**REGISTRY FEE.** In addition to postage, Foreign 10c. Domestic first-class and sealed fourth-class mail prepaid with first-class postage, indemnified for \$50.00 or less, fee 15c.; \$100.00 or less, 20c. Return receipt 3c. extra.

<sup>oo</sup> Drop letters, 1c. per oz.

†The rate on printed books or catalogs having 24 or more pages, seeds, bulbs, etc., weighing 8 ozs. or less, is 1c. for each 2 ozs. or fraction thereof.

\*Limit of weight, 8 ozs. Over 8 ozs. subject to 4th class rates.

oFor foreign rates and conditions, inquire at Post Office.

**DOMESTIC: SPECIAL DELIVERY.**—A special delivery stamp or ten cents' worth of ordinary stamps and the words "Special Delivery" marked on the envelope or wrapper, in addition to the regular postage, secures the special delivery of any piece of mail matter weighing not more than 2 lbs., including parcel post packages, within one mile of any U. S. post office. On mail matter weighing more than 2 lbs., but not more than 10 lbs., 15c.; over 10 lbs., 20c.

**RE FORWARDING.**—First-class matter (Letters, postal cards, etc.) will be forwarded without extra postage. Other matter requires a new prepayment of postage.

Mail matter for Hawaii, Porto Rico, the Philippines, The Island of Guam and Tutuila, the "Canal Zone," and the Virgin Islands of U. S., is subject to domestic rates and conditions.

**DOMESTIC PARCEL POST.**—Merchandise may be sent by domestic parcel post, the rates depending on weight and distance, concerning which inquire at Post Office.

**REQUIREMENTS**—Sender's name and address must appear on package—otherwise unmailable; parcels over four ounces must be mailed at post office or places designated—not in street boxes; contents easily examined; limit of size, 84 inches in length and girth combined.

**SPECIAL HANDLING.**—25c. postage affixed to a parcel, in addition to the regular postage charges, with the words "Special Handling" written or printed on the wrapper, secures the same expeditious handling of a fourth-class article as accorded first-class mail.

**C. O. D.**—Goods may be sent C. O. D. by parcel post. On amounts not exceeding \$10.00, the fee is 12c.; not exceeding \$50—15c.; \$100.00—25c., collected and returned to the sender. Fee also insures the parcel.

**POSTAL SAVINGS.**—Money may be deposited to individual accounts at offices which have been designated as Postal Savings Offices, and interest is paid at the rate of 2 per cent. per annum on deposits.

**DOMESTIC MONEY-ORDER FEES.**—For orders from \$0.01 to \$2.50, 5 c.; \$2.51 to \$5.00, 7c.; \$5.01 to \$10.00, 10c.; \$10.01 to \$20.00, 12c.; \$20.01 to \$40.00, 15c.; \$40.01 to \$60.00, 18c.; \$60.01 to \$80.00, 20c.; and \$80.01 to \$100.00, 22c.

Subject to change after going to press.

# CALENDAR FOR 1929

1929	S	M	T	W	T	F	S	1929	S	M	T	W	T	F	S
<b>Jan.</b>			1	2	3	4	5	<b>July</b>	..	1	2	3	4	5	6
	6	7	8	9	10	11	12		7	8	9	10	11	12	13
	13	14	15	16	17	18	19		14	15	16	17	18	19	20
	20	21	22	23	24	25	26		21	22	23	24	25	26	27
	27	28	29	30	31	..	..		28	29	30	31	..	..	..
<b>Feb.</b>	..	..	..	..	..	1	2	<b>Aug.</b>	..	..	..	..	1	2	3
	3	4	5	6	7	8	9		4	5	6	7	8	9	10
	10	11	12	13	14	15	16		11	12	13	14	15	16	17
	17	18	19	20	21	22	23		18	19	20	21	22	23	24
	24	25	26	27	28	..	..		25	26	27	28	29	30	31
<b>Mar.</b>	..	..	..	..	..	1	2	<b>Sept.</b>	1	2	3	4	5	6	7
	3	4	5	6	7	8	9		8	9	10	11	12	13	14
	10	11	12	13	14	15	16		15	16	17	18	19	20	21
	17	18	19	20	21	22	23		22	23	24	25	26	27	28
	24	25	26	27	28	29	30		29	30	..	..	..	..	..
	31	..	..	..	..	..	..	<b>Oct.</b>	..	..	1	2	3	4	5
<b>Apr.</b>	..	1	2	3	4	5	6		6	7	8	9	10	11	12
	7	8	9	10	11	12	13		13	14	15	16	17	18	19
	14	15	16	17	18	19	20		20	21	22	23	24	25	26
	21	22	23	24	25	26	27		27	28	29	30	31	..	..
	28	29	30	..	..	..	..	<b>Nov.</b>	..	..	..	..	1	2	3
<b>May</b>	..	..	..	1	2	3	4		3	4	5	6	7	8	9
	5	6	7	8	9	10	11		10	11	12	13	14	15	16
	12	13	14	15	16	17	18		17	18	19	20	21	22	23
	19	20	21	22	23	24	25		24	25	26	27	28	29	30
	26	27	28	29	30	31	..	<b>Dec.</b>	1	2	3	4	5	6	7
<b>June</b>	..	..	..	..	..	1	2		8	9	10	11	12	13	14
	2	3	4	5	6	7	8		15	16	17	18	19	20	21
	9	10	11	12	13	14	15		22	23	24	25	26	27	28
	16	17	18	19	20	21	22		29	30	31	..	..	..	..
	23	24	25	26	27	28	29		..	..	..	..	..	..	..
	30	..	..	..	..	..	..		..	..	..	..	..	..	..

